



UNIVERSITY OF THE AEGEAN

**DEPARTMENT OF
FINANCIAL AND MANAGEMENT ENGINEERING**

**Network analysis of the editorial boards of finance journals of the
Scimago list**

IASON STYLIANOS SKLIKAS

Diploma Thesis

First Supervisor: Dr. DIMOSTHENIS DRIVALIARIS

Second Supervisor: Dr. ANDREAS ANDRIKOPOULOS

Examination Committee: Dr. ANDREAS ANDRIKOPOULOS

Dr. NIKOLAOS AMPAZIS

Dr. DIMOSTHENIS DRIVALIARIS

JUNE 2017

CHIOS



ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΙΓΑΙΟΥ
ΤΜΗΜΑ ΜΗΧΑΝΙΚΩΝ ΟΙΚΟΝΟΜΙΑΣ & ΔΙΟΙΚΗΣΗΣ

**Ανάλυση δικτύων των συντακτικών επιτροπών των περιοδικών χρηματοοικονομικής
της λίστας SCImago**

ΙΑΣΩΝ ΣΤΥΛΙΑΝΟΣ ΣΚΛΗΚΑΣ

ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ

Πρώτος Επιβλέπων: Δρ. ΔΗΜΟΣΘΕΝΗΣ ΔΡΙΒΑΛΙΑΡΗΣ
Δευτερος Επιβλέπων: Δρ. ΑΝΔΡΕΑΣ ΑΝΔΡΙΚΟΠΟΥΛΟΣ

Τριμελής Εξεταστική Επιτροπή: Δρ. ΑΝΔΡΕΑΣ ΑΝΔΡΙΚΟΠΟΥΛΟΣ
Δρ. ΝΙΚΟΛΑΟΣ ΑΜΠΙΑΖΗΣ
Δρ. ΔΗΜΟΣΘΕΝΗΣ ΔΡΙΒΑΛΙΑΡΗΣ

ΙΟΥΝΙΟΣ 2017

ΧΙΟΣ

Summary

In this thesis, certain characteristics of the 212 journals listed in the Finance field of the SCImago Journal Rank list for 2015 are analyzed.

We start by presenting some bibliometric characteristics of those journals and then we investigate their editorial boards through the use of descriptive statistics.

Using common members of their editorial boards we construct several networks of the journals. The characteristics of those networks (connectivity, degrees, centrality measures) are then analyzed.

Περίληψη

Στην παρούσα διπλωματική, αναλύονται ορισμένα χαρακτηριστικά από 212 επιστημονικά περιοδικά της SCImago Journal Rank λίστας στο πεδίο των χρηματοοικονομικών για το έτος του 2015.

Αρχικά παρουσιάζουμε κάποια χιλιομετρικά χαρακτηριστικά των περιοδικών και έπειτα ερευνούμε την συγγραφική επιτροπή τους με την χρήση της περιγραφικής στατιστικής.

Τέλος χρησιμοποιώντας τα κοινά μέλη των επιτροπών σχεδιάστηκαν τα δίκτυα των περιοδικών και αναλύθηκαν τα χαρακτηριστικά των δικτύων (connectivity, degrees, centrality measures).

Acknowledgments

I would like to express the deepest appreciation to my supervisor Dr Dimosthenis Drivaliaris, who was always there to guide me and helping me throughout conversations. Moreover he introduced me into a new field of studies, data science, that would help me completing my thesis easier and also helping me for my next academic step.

With a special mention to Gatos Dimitrios and Stefania-Maria Christou , the network analysis team that we started together and through conversations we managed to help each other and produce a better result. Furthermore all together we gathered and cleaned the data for this thesis, which was an enormous work and couldn't have done it alone.

A very special gratitude to my introduction co-author Aglaia Tsopelakou for helping me and through our regularly talks we explained each other's doubts.

Table of Contents

Summary	I
Περίληψη	II
Acknowledgments	III
1 Introduction	1
1.1 Editorial Boards and their Importance.....	1
1.2 Overview	2
2 SCImajor Finance list 2015	3
2.1 Rank	3
2.2 Title.....	3
2.3 Type.....	4
2.4 ISSN	5
2.5 SJR	5
2.5.1 SJR.Quartile	7
2.6 H Index.....	12
2.6.1 H index Quartiles	13
2.7 Sorted H index	16
2.7.1 H index boxplots.....	16
2.8 Category	21
2.9.1 Subject Areas.....	21
2.9.2 Subject Categories.....	23
2.9 Country.....	25
2.10 Rest of Columns names.....	30
2.11 Comparison SCImago with ABS, CNRS and VHB	31
2.11.1 ABS	31
2.11.2 CNRS.....	31
2.11.3 VHB.....	31
3 SCImajor Finance 2015 Editorial Boards	34
3.1 Data of editorial boards	34
3.2 Edit of editorial boards.....	34
3.3 Descriptive Statistics of Editorial Boards	35
3.3.1 Names	35
3.3.2 Tiers.....	37
3.3.3 Affiliations	38
3.3.4 Country.....	44
3.4 Journal's Analysis	48
3.4.1 Tier and Position Explanation	48
3.4.2 Journal's Percentages in each Tier.....	51

3.5 Individual Journal Analysis	62
3.5.1 Top Journal.....	62
3.5.2 Journals with Extreme Size Boards	63
3.5.3 Journals with highest Ratio in Tier 1 according to their SJR (Tier1/SJR)	69
4 SCImago Finance 2015 Networks.....	72
4.1 Introduction	72
4.2 Creating the Incidence Matrix.....	72
4.3 Undirected Unweighted Network.....	72
4.3.1 Connected Components.....	72
4.3.2 Degree or Degree Centrality	76
4.3.3 Modularity.....	85
4.3.4 Density or Connectance	101
4.3.5 Clustering (Clustering coefficients)	102
4.3.6 Path & Eccentricity	110
4.3.7 Centralities	115
4.3.8 Betweenness Centrality.....	115
4.3.9 Closeness Centrality	121
4.3.10 Harmonic closeness centrality	127
4.3.11 Eigenvector Centrality.....	132
4.3.12 Hubs and Authorities	138
4.3.13 Page Rank.....	143
4.3.14 Comparisons Between Centralities	148
4.4 Undirected Weighted Network.....	155
4.4.1 Weighted Degree	155
4.4.2 Weighted Degree and Centralities.....	159
4.4.3 Modularity.....	162
4.5 Networks Conclusion	177
Appendix A Tables.....	179
Appendix B Codes	267
Country Tiers	267
Journal Tiers	268
Affiliation Percentages in each tier	269
Individual Journals.....	271
CSV Creation.....	271
One Excel.....	274
Network.....	275
References	277

Figures

Figure 2.0.1 Types of Scimago.....	4
Figure 2.0.1 Sjr Frequency.....	6
Figure 2.0.2 Sjr Boxplots	9
Figure 2.0.3 Q2 Q3 Q4 Boxplots.....	10
Figure 2.0.4 Total Sjr in Quartiles.....	11
Figure 2.0.1 H index Frequency.....	13
Figure 2.0.2 H index Boxplots	14
Figure 2.0.3 Q2 Q3 Q4 Boxplots.....	15
Figure 2.0.4 Total H index in Quartiles.....	15
Figure 2.0.1 H index & Sorted H index Boxplots	16
Figure 2.0.2 Q2 Q3 Q4 H index & Sorted H index Boxplots	17
Figure 2.0.3 Sjr & Sorted H index Boxplots	17
Figure 2.0.4 Q2 Q3 Q4 Sjr & Sorted H index Boxplots	18
Figure 2.0.5 Total Sjr by Sjr & H index Quartiles	19
Figure 2.0.6 Total Sjr by Sjr & Sjr Quartiles	19
Figure 2.0.1 Top 10 Countries with most journals.....	26
Figure 2.0.2 Top 10 Sjr Countries	26
Figure 2.0.3 Netherlands journals Sjr Quartiles	27
Figure 2.0.4 Uk journals Sjr Quartiles.....	27
Figure 2.0.5 USA journals Sjr Quartiles	27
Figure 2.0.6 Top 10 H index Journals	28
Figure 2.0.7 Top 5 Uk Journals Sjr & H index	28
Figure 2.0.8 Top 5 USA Journals Sjr & H index.....	29
Figure 2.0.9 Top 5 Netherlands Journals Sjr & H index	29
Figure 2.0.1 Percentage of each list in SCImago	32
Figure 2.0.2 Percentage of SCImago in other lists	32
Figure 3.0.1 People with more than 1 seat.....	36
Figure 3.0.2 Names in more than 5 editorial boards	37
Figure 3.0.3 Tiers.....	38
Figure 3.0.4 Top 15 Affiliations	39
Figure 3.0.5 Top 10 Affiliations of each tier	40
Figure 3.0.6 Top 15 Percentages of Tier 1	40
Figure 3.0.7 Top 15 Percentages in Tier 1.....	41
Figure 3.0.8 Top 15 Percentages in Tier 2.....	42
Figure 3.0.9 Top 15 Percentages in Tier 3.....	42
Figure 3.0.10 Top 15 Countries percentages seats	45
Figure 3.0.11 Uk seats.....	45
Figure 3.0.12 Top 10 countries of each tier	46
Figure 3.0.13 Top 10 Countries percentages in Tier 1.....	46
Figure 3.0.14 USA tier 1 seats	47
Figure 3.0.1 Journals editorial board sizes.....	51
Figure 3.0.2 Editorial size boxplots Sjr Quartiles.....	52
Figure 3.0.3 Editorial size boxplots h index Quartiles	52
Figure 3.0.4 Sjr - editorial board size ratio.....	53
Figure 3.0.5 H index -editorial size ratio	53
Figure 3.0.6 Sorted H index -editorial size ratio.....	54
Figure 3.0.7 Editorial size -tier 1 ratio	54
Figure 3.0.8 Editorial size -tier 1 ratio without outliers	55
Figure 0.9 Editorial size -tier 1 ratio over 15 seat per editorial	55

Figure 3.0.10 Journals total countries.....	56
Figure 3.0.11 Journals country size	57
Figure 3.0.12 Journals with 1 country.....	57
Figure 3.0.13 Countries sjr boxplots	58
Figure 3.0.14 Countries h index boxplots	58
Figure 3.0.15 Journals Affiliations size	59
Figure 3.0.16 Journals affiliation in Sjr quartiles.....	60
Figure 3.0.17 Affiliations sjr boxplots.....	60
Figure 3.0.18 Affiliations H index boxplots	61
Figure 4.0.1 SCImago Finance 2015 Network 1 <i>the black dots (vertices) represent the journals and the green lines (edges) the connections</i>	73
Figure 4.0.2 Central Component percentage in sjr quartiles.....	74
Figure 4.0.3 Central Component percentage in h index quartiles.....	74
Figure 4.0.4 Journals with no connections in sjr quartiles.....	75
Figure 4.0.5 Journals with no connections in h index quartiles.....	75
Figure 4.1.0.6 Degree frequency.....	77
Figure 4.1.0.7 Norm sjr-degree	77
Figure 4.1.0.8 Norm h index-degree	78
Figure 4.1.0.9 Degree frequency of central component.....	79
Figure 4.1.0.10 Top 15 degrees.....	79
Figure 4.1.0.11 Degree boxplot.....	80
Figure 4.1.0.12 degree sjr boxplot	80
Figure 4.1.0.13 total degree in sjr	81
Figure 4.1.0.14 total degree in h index	81
Figure 4.1.0.15 Norm sjr-degree central component	82
Figure 4.1.0.16 Norm h index-degree central component	82
Figure 4.1.0.17 sjr-degree ratio.....	83
Figure 4.1.0.18 Degree - editors ratio.....	83
Figure 4.3.0.1 Sjr in modularity boxplots	91
From figure 4.3.0.2 we see that SJR in each community is allocated very strange. Community 0 which has the most journals has the most outliers and apart from community 3 and 6 all the others contain outliers.....	91
Figure 4.3.0.3 Percent of sjr quart. in comm 0	92
Figure 4.3.0.4 Percent of sjr quart. in comm 1	92
Figure 4.3.0.5 Percent of sjr quart. in comm 2	93
Figure 4.3.0.6 Percent of sjr quart. in comm 3	93
Figure 4.3.0.7 Percent of sjr quart. in comm 4	94
Figure 4.3.0.8 Percent of sjr quart. in comm 5	94
Figure 4.3.0.9 Percent of sjr quart. in comm 6	95
Figure 4.3.0.10 H index in modularity boxplots	95
Figure 4.3.0.11 Percent of h index quart. in comm 0.....	96
Figure 4.3.0.12 Percent of h index quart. in comm 1.....	96
Figure 4.3.0.13 Percent of h index quart. in comm 2.....	97
Figure 4.3.0.14 Percent of h index quart. in comm 3.....	97
Figure 4.3.0.15 Percent of h index quart. in comm 4.....	98
Figure 4.3.0.16 Percent of h index quart. in comm 5.....	98
Figure 4.3.0.17 Percent of h index quart. in comm 6.....	99
Figure 4.3.0.18 Sjr quart in top 7 modularity classes.....	100
Figure 4.3.0.19 degree in modularity boxplots	100
Figure 4.3.0.20 Sjr, h index & degree in modularity classes	101
Figure 4.5.0.21 Triangle frequency	102
Figure 4.5.0.22 Norm Triangles & Sjr	103

Figure 4.5.0.23 Triangles boxplots in sjr quart.....	103
Figure 4.5.0.24 Norm Triangles & H index	104
Figure 4.5.0.25 Triangles boxplots in h index quart.....	104
Figure 4.5.0.26 Norm Triangles & Degree.....	105
Figure 4.5.0.27 Triangles in modularity boxplots.....	105
Figure 4.5.0.28 Clustering Frequency	106
Figure 4.5.0.29 Norm Clustering & Sjr	106
Figure 4.5.0.30 Clustering boxplots in sjr quart.	107
Figure 4.5.0.31 Norm Clustering & H index	107
Figure 4.5.0.32 Clustering boxplots in h index quart	108
Figure 4.5.0.33 Norm Clustering & Degree	108
Figure 4.5.0.34 Clustering in modularity boxplots.....	109
Figure 4.5.0.35 Norm Clustering & Triangles	109
Figure 4.6.0.36 Networks eccentricity	110
Figure 4.6.0.37 Sum & average degree in each eccentricity.....	111
Figure 4.6.0.38 eccentricity of central component.....	111
Figure 4.6.0.39 Norm Eccentricity & Sjr	112
Figure 4.6.0.40 Eccentricity boxplots in sjr quart.	112
Figure 4.6.0.41 Norm Eccentricity & H index.....	113
Figure 4.6..0.42 Eccentricity boxplots in h index quart.....	113
Figure 4.6.0.43 Norm Eccentricity & Degree	114
Figure 4.6.0.44 Norm Eccentricity & Triangles	114
Figure 4.6.0.45 Norm Eccentricity & Clustering.....	115
Figure 4.8.0.46 Betweenness Frequency	116
Figure 4.8.0.47 Norm Betweenness & Sjr	117
Figure 4.8.0.48 Betweenness boxplots in sjr quart.....	117
Figure 4.8.0.49 Norm Betweenness & H index	118
Figure 4.8.0.50 Betweenness boxplots in h index quart.....	118
Figure 4.8.0.51 Norm Betweenness & Degree.....	119
Figure 4.8.0.52 Betweenness in modularity boxplots.....	119
Figure 4.8.0.53 Norm Betweenness & Triangles.....	120
Figure 4.8.0.54 Norm Betweenness & Clustering.....	120
Figure 4.8.0.55 Norm Betweenness & Eccentricity	121
Figure 4.9.0.56 Closeness Frequency.....	122
Figure 4.9.0.57 Norm Closeness & Sjr	122
Figure 4.9.0.58 Closeness boxplots in sjr quart.	123
Figure 4.9.0.59 Norm Closeness & H index.....	123
Figure 0.60 Closeness boxplots in h index quart.....	124
Figure 4.9.0.61 Norm Closeness s & Degree	124
Figure 4.9.0.62 Closeness in modularity boxplots	125
Figure 4.9.0.63 Norm Closeness & Triangles	125
Figure 4.9.0.64 Norm Closeness & Clustering.....	126
Figure 4.9.0.65 Norm Closeness & Eccentricity	126
Figure 4.10.0.66 Harmonic Closeness Frequency	127
Figure 4.10.0.67 Norm Harmonic Closeness & Sjr	127
Figure 4.10.0.68 Harmonic Closeness boxplots in sjr quart.....	128
Figure 4.10.0.69 Norm Harmonic Closeness & H index	128
Figure 4.10.0.70 Harmonic Closeness boxplots in h index quart.....	129
Figure 4.10.0.71 Norm Harmonic Closeness s & Degree	129
Figure 4.10.0.72 Harmonic Closeness in modularity boxplots.....	130
Figure 4.10.0.73 Norm Harmonic Closeness & Triangles.....	130

Figure 4.10.0.74 Norm Harmonic Closeness & Clustering	131
Figure 4.10.0.75 Norm Harmonic Closeness & Eccentricity.....	131
Figure 4.11. 0.76 Eigenvector Frequency.....	133
Figure 4.11.0.77 Norm Eigenvector & Sjr.....	133
Figure 4.11.0.78 Eigenvector boxplots in sjr quart.	134
Figure 4.11.0.79 Norm Eigenvector & H index.....	134
Figure 4.11.0.80 Eigenvector boxplots in h index quart	135
Figure 4.11.0.81 Norm Eigenvector & Degree	135
Figure 4.11.0.82 Eigenvector in modularity boxplots	136
Figure 4.11.0.83 Norm Eigenvector & Triangles	136
Figure 4.11.0.84 Norm Eigenvector & Clustering	137
Figure 4.11.0.85 Norm Eigenvector & Eccentricity	137
Figure 4.12.0.86 HITS Frequency	138
Figure 4.12.0.87 Norm HITS & Sjr	139
Figure 4.12.0.88 HITS boxplots in sjr quart.	139
Figure 4.12.0.89 Norm HITS & H index	139
Figure 4.12.0.90 HITS boxplots in h index quart	140
Figure 4.12.0.91 Norm HITS & Degree	140
Figure 0.92 HITS in modularity boxplots	141
Figure 4.12.0.93 Norm HITS & Triangles	141
Figure 4.12.0.94 Norm HITS & Clustering	141
Figure 4.12.0.95 Norm HITS & Eccentricity	142
Figure 4.13.0.96 Pageranks Frequency	144
Figure 4.13.0.97 Norm Pageranks & Sjr	144
Figure 4.13.0.98 Pageranks boxplots in sjr quart.....	145
Figure 4.13.0.99 Norm Pageranks & H index	145
Figure 4.13.0.100 Pageranks boxplots in h index quart.....	145
Figure 4.13.0.101 Norm Pageranks & Degree.....	146
Figure 4.13.0.102 Pageranks in modularity boxplots	146
Figure 4.13.0.103 Norm Pageranks & Triangles.....	146
Figure 4.13.0.104 Norm Pageranks & Clustering.....	147
Figure 4.13.0.105 Norm Pageranks & Eccentricity	147
Figure 4.14.0.106 Norm Betweenness & Closeness	148
Figure 4.14.0.107 Norm Betweenness & Harmonic Closeness.....	148
Figure 4.14.0.108 Norm Betweenness & Eigenvector	149
Figure 4.14.0.109 Norm Betweenness & HITS	149
Figure 4.14.0.110 Norm Betweenness & Pageranks.....	150
Figure 4.14.0.111 Norm Closeness & Harmonic Closeness	150
Figure 4.14.0.112 Norm Closeness & Eigenvector.....	151
Figure 4.14.0.113 Norm Closeness & HITS.....	151
Figure 4.14.0.114 Norm Closeness & Pageranks	151
Figure 4.14.0.115 Norm Harmonic Closeness & Eigenvector	152
Figure 4.14.0.116 Norm Harmonic Closeness & Eigenvector	152
Figure 4.14.0.117 Norm Harmonic Closeness & Eigenvector	153
Figure 4.14.0.118 Norm Eigenvector & HITS	153
Figure 4.14.0.119 Norm Eigenvector & HITS	154
Figure 4.14.0.120 Norm HITS & Pageranks.....	154
Figure 4.15.0.1 Weighted Degree Frequency	155
Figure 4.15.0.2 Norm Weighted Degree & Sjr	156
Figure 4.15.0.3 Weighted Degree boxplots in sjr quart.....	156
Figure 4.15.0.4 Norm Weighted Degree & H index	157

Figure 4.15.0.5 Weighted Degree boxplots in h index quart.	157
Figure 4.15.0.6 Norm Weighted Degree & Degree.....	158
Figure 4.15.0.7 Norm Weighted Degree & Triangles.....	158
Figure 4.15.0.8 Norm Weighted Degree & Clustering.....	158
Figure 4.16.0.9 Norm Weighted Degree & Betweenness.....	159
Figure 4.16.0.10 Norm Weighted Degree & Closeness.....	159
Figure 4.16.0.11 Norm Weighted Degree & Harmonic Closeness.....	160
Figure 4.16.0.12 Norm Weighted Degree & Eigenvector	160
Figure 4.16.0.13 Norm Weighted Degree & HITS.....	161
Figure 4.16.0.14 Norm Weighted Degree & Pagerank	161
Figure 4.17.0.1 Sjr in modularity boxplots.....	168
Figure 4.17.0.2 Percent of sjr in com. 0.....	168
Figure 4.17.0.3 Percent of sjr in com. 1.....	169
Figure 4.17.0.4 Percent of sjr in com. 2.....	169
Figure 4.17.0.5 Percent of sjr in com. 3.....	169
Figure 4.17.0.6 Percent of sjr in com. 4.....	170
Figure 4.17.0.7 Percent of sjr in com. 5.....	170
Figure 4.17.0.8 Percent of sjr in com. 6.....	170
Figure 4.17.0.9 Percent of sjr in com. 7.....	171
Figure 4.17.0.10 H index in modularity boxplots.....	171
Figure 4.17.0.11 Percent of h index in com. 0.....	172
Figure 4.17.0.12 Percent of h index in com. 1.....	172
Figure 4.17.0.13 Percent of h index in com. 2.....	173
Figure 4.17.0.14 Percent of h index in com. 3.....	173
Figure 4.17.0.15 Percent of h index in com. 4.....	173
Figure 0.16 Percent of h index in com. 5.....	174
Figure 4.17.0.17 Percent of h index in com. 6.....	174
Figure 4.17.0.18 Percent of h index in com. 7.....	175
Figure 4.17.0.19 Degree & Weighted Degree.....	176
Figure 4.18.0.1 Degree,Betweenness,Eigenvector & Pagerank Linegraph.....	177

Tables

Table 1.....	41
Table 2 36 Highest Percentages in Tier 1.....	43
Table 3 Top 15 Countries seats and Tiers percentages.....	44
Table 4 Journal of Finance Tier Allocation & Explanation.....	62
Table 5 Journal of Finance Countries explanation.....	62
Table 6 Journal of Finance Affiliation explanation.....	62
Table 7 Journal of Management Tier Allocation & Explanation.....	63
Table 8 Journal of Management Countries explanation.....	63
Table 9 Journal of Management Affiliation explanation.....	67
Table 10 Financial Markets Institutions and Instruments Tier Allocation & Explanation.....	68
Table 11 Financial Markets Institutions and Instruments Countries explanation.....	68
Table 12 Financial Markets Institutions and Instruments Affiliation explanation.....	68
Table 13 ATA Journal of Legal Tax Research Tier Allocation & Explanation.....	68
Table 14 ATA Journal of Legal Tax Research Countries explanation.....	68
Table 15 ATA Journal of Legal Tax Research Affiliation explanation.....	68
Table 16 Accounting Review Tier Allocation & Explanation.....	69
Table 17 Accounting Review Countries explanation.....	69
Table 18 Accounting Review Affiliation explanation.....	69
Table 19 Astin Bulletin Tier Allocation & Explanation.....	70
Table 20 Astin Bulletin Countries explanation.....	70
Table 21 Astin Bulletin Affiliation explanation.....	71
Table 22 Zeitschrift für die Gesamte Versicherungswissenschaft Tier Allocation & Explanation.....	71
Table 23 Zeitschrift für die Gesamte Versicherungswissenschaft Countries explanation.....	71
Table 24 Zeitschrift für die Gesamte Versicherungswissenschaft Affiliation explanation.....	71
Table 25 Components.....	73
Table 26 Group 2 of Components.....	75
Table 27 Top 15 degrees.....	76
Table 28 Modularity.....	85
Table 29 Community 0.....	87
Table 30 Community 1.....	88
Table 31 Community 2.....	88
Table 32 Community 3.....	88
Table 33 Community 4.....	89
Table 34 Community 5.....	90
Table 35 Community 6.....	90
Table 36 Eccentricity.....	110
Table 37 Top 15 betweenness centralities.....	116
Table 38 top 15 closeness centralities.....	121
Table 39 Top 15 Eigenvectors.....	132
Table 40 Top 15 Pageranks.....	143
Table 41Modularity Classes.....	162
Table 42 Community 0.....	163
Table 43 Community 1.....	164
Table 44 Community 2.....	165
Table 45 Community 3.....	165
Table 46 Community 4.....	166
Table 47 Community 5.....	166
Table 48 Community 6.....	166
Table 49 Community 7.....	167

Table 50 SCImago Finance 2015	196
Table 51 Journals Tiers	203
Table 52 Affiliation Tiers	238
Table 53 Country Tiers	240
Table 54 Journal's Total Editors, Countries & Affiliations	244
Table 55 Degree, Norm. Degree, Cluster, Norm.Cluster Triangles, Norm.Triangles	249
Table 56 Closeness Norm.Closeness, Harmonic, Norm.Harmonic	254
Table 57 Betweenness, Norm.Betweenness, Eigenvector, Norm.Eigenvector	258
Table 58 (HITS) Authority, Hub, Norm.Hub.....	263
Table 59 Pagerank,Norm.Pagerank,Eccentricity, Norm.Eccentricity	267

1 Introduction

1.1 Editorial Boards and their Importance

This thesis examines the editorial boards and two journals indicators ,SJR and H index, in the Finance category journals of SCImago list 2015. The target is to show the editorial boards and journals affiliations in the top finance journals by analysing the editorial boards network.

This research is based on Scientometrics, before scientometrics there was bibliometrics which is “*the branch of information science dealing specifically with the statistical study of publications and citations*”[57]. Scientometrics can be defined as the “*quantitative study of science, communication in science, and science policy*” [32]. Unlike the behavioural sciences and mainstream philosophy of science, scientometrics focuses on texts (documents) as empirical units of analysis [47]. Authors are able to increase the impact of science, technology and innovation from a quantitative perspective.

During the 17th century the first scientific journals have appeared, these journals created a communication mechanism where it remains unchanged until today and this process is made through the publish houses. A scientific journal is a publish house product, but not their property (most journals are properties of scientific societies or similar organizations, although the printing and marketing activities belong to publish houses under contract). This communications process doesn't rely on dissertations but on selective publications which enables sciences to work successfully [79]. This selection is made by the journal's editorial board; they control and screen the papers the journal receives and decide which papers are worthy of publication after consulting anonymous referees. The editorial board is fulfilled by some scientists who have the judgment role by accepting or declining manuscripts, this selection has a filtering process which evaluates the quality of the paper by peer review; these judges are the journals Gatekeepers [11].

Braun in the 80s has initiated the “Gatekeepers indicator” which is an alternative indicator instead of literature characteristics “*They specifically measure a form of scientific power, expected to be strongly correlated with citation indicators or also excellence measures of various kinds.*”[15].

“*These gatekeepers have powerful strategic positions in the collective activity of science*” [19].

Gatekeepers are the members of an editorial board and they hold a higher position than authors and this is based on their scientific past. Braun answers in two questions first how many scientist publish their papers domestically and how many internationally. Secondly does the status of a Gatekeeper influences the journal. According to Braun some scientists are likely to be more famous than others due to their “*efficient international relationships and communication strategy*” and so on have more chances to be part of the editorial board of an international journal. Gatekeeper's impact can be measured by the number of citations to all of their previously published papers but only in a common field of science. There is a small increase in the journal's status as the gatekeepers prestige grows. Although scientist may have same scientific achievements, the more familiar a scientist is the more reward is given [15]. Editors are seeking to increase the journal's reputation by being cited in other journals literature and the only way to achieve it is to have high quality papers. On the other side authors seek to be referred as much as the can and increase their impact of their work and as we have seen in Faria's model, “*are interested in publishing their article in high reputation journals*” [4]. So there is interdependence between the authors, gatekeepers and journals.

Because of the internet expansion on the decade passed there was a high increase in gaining access to the large datasets and thus contributed in the development of network sciences. A network is a link between points and many systems can be defined as a network from biological to social and internet to structural. One definition of a network is “*a group or system of interconnected people or things*”. In the case of the scientometrics, we have a social network that overall connects the published papers, authors and the journals. “*The connections in a social network affect how people learn, form opinions, and gather news, as well as affecting other less obvious phenomena, such as the spread of disease.*” [57]. The reason these science networks where produced is to measure the influence -connections- authors and journals have through some indicators such as Impact Factor, H index and SJR.

Baccini introduces us to the world of journals networks where he tries to explain the journals connections through network analysis. In his articles he focuses on which journals have a central position and why and how they can be divided into subgroups. In order to calculate these results a bipartite network, or so called two mode network or also called affiliation network, is needed. In this type of networks we have two vertices, actors and events, (dual-mode) and the affiliation connects these vertices.

In our analysis, such as in baccini's, the journals are considered to be the vertices or also called nodes of the bipartite network and an undirected bond is created between a pair of journals when a seat is hold by the same person. Actors and events are the journals and their editorial boards respectively and the affiliation is their bond. This duality refers to an editor who holds a seat in a journal's editorial board and he creates a link between him and the journal. This creates the idea that "*one of editors linked by journals (networks of co-membership), or as one of journals linked by editors (interlocking of events).*" [5].

In the occasion where one editor holds also a position in another editorial board creates the idea that these journals are linked and *be explained as the result of a strategic decision of the firms, as collusion, or cooptation or monitoring of sources of environmental uncertainty* [56]. We can measure the journals links by calculating the journal's centralities (Degree, Betweenness, Closeness, Harmonic Closeness, Hubs & Authorities, PageRanks) and an analysis is been conducted in chapter 3 by comparing also the SJR and H index to see how the journals reputation by its indicators ,SJR or H index, affects the network .

1.2 Overview

The thesis is divided in four chapters, including the short introductory chapter. Chapter 2 introduces the SCImago list in finance category for 2015 and a descriptive statistical analysis takes place about the lists contains. Chapter 3 analyses the journal's editorial boards, how many people hold these seats, what position do they hold, in which university are they affiliated with and which journal has the higher percentages of these. Finally, chapter 4 describes the network of the journals, in the SCImago list and examines which journals are more centralized, using different type of network measurements.

2 SCImajor Finance list 2015

SCImago Journal & Country Rank contains journals and country scientific indicators which are available to the public. SCImago is a research group from Spain, more specific from the Consejo Superior de Investigaciones Científicas (CSIC), University of Granada, Extremadura, Carlos III (Madrid) and Alcalá de Henares. SCImago Journal Rank Indicator was created by the SCImago using the world know algorithm of Google Pagerank, so the SJR platform takes its name from the SCImago Journal Rank Indicator (SJR). It abstracts information from the [Scopus®](#). [Scopus®](#) is the largest database of Elsevier B.V. of peer-reviewed literature. They have separated the Journals by areas, categories or countries. More specific they have grouped the subject's areas in 27 thematic and 313 categories [68].

We have taken our Journal Ranking list from SCImago portal where the Journals are grouped by the *Finance* category during 2015 (<http://www.scimagojr.com/journalrank.php?category=2003>). This list has the top journals, according to SCImago Journal & Country Rank for 2015, which are ranked by their SJR. Our list has 214 Journals which are analysed in 15 columns.

(For our analysis we used the R programming language and in order for our analysis to be reproducible we will share all of our R codes)

```
names(SCImago)
```

```
## [1] "Rank"           "Title"
## [3] "Type"           "Issn"
## [5] "SJR"            "SJR.Quartile"
## [7] "H.index"        "Total.Docs...2015."
## [9] "Total.Docs...3years." "Total.Refs."
## [11] "Total.Cites..3years." "Citable.Docs...3years."
## [13] "Cites...Doc...2years." "Ref....Doc."
## [15] "Country"
```

After glancing at our column titles we shall explain each column so we can understand what is on the list.

2.1 Rank

Rank contains the ranking of our list. So it's a series from 1 to 214 that takes its number from the respective SJR; greatest value of SJR the highest rank it has.

2.2 Title

The title contains the names of our journals; each title is unique and has a specific id number the ISSN. Let's have a look of the top 10 journals titles.

```
SCImago[1:10,2]
```

```
## [1] Journal of Finance
## [2] Review of Financial Studies
## [3] Journal of Financial Economics
## [4] Journal of Accounting and Economics
## [5] Journal of Management
## [6] Family Business Review
```

```
## [7] Journal of Accounting Research
## [8] Handbook of the Economics of Finance
## [9] Handbook of Public Economics
## [10] Accounting Review
```

2.3 Type

It's the publication type and explains what kind of document is each journal. We have three types on the list we are analysing Journals, Book Series and Conference & Proceedings. Journal is a periodical publish issue that contains scientific articles, these journals contain the most significant researches in a specific academic discipline and they publish them into different types. The most well-known types are the research articles and the review articles. A book series is book that is continuously published on the same subject. Finally we have the Conference and Readings type, "Conferences are a major source of cutting edge research, particularly in science and engineering. At conferences, researchers present papers on the research they are doing and obtain feedback from the audience. The papers presented in the conference are then usually published in a volume called a conference proceeding. It may be months before such information is published as a journal article, or it may never be published.

```
Typ<-SCImago %>% select(Type) %>% group_by(Type)
summary(Typ)
```

```
##
##              Type
## book series      : 12
## conference and proceeding : 2
## journal          : 200
```

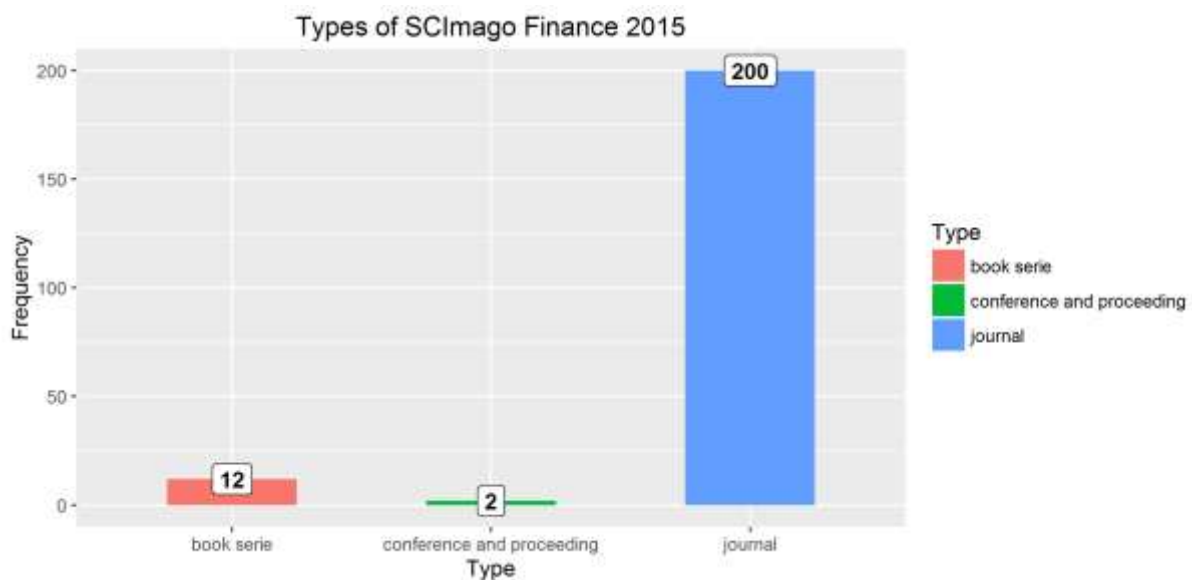


Figure 2.0.1 Types of Scimago

2.4 ISSN

ISSN is a unique id of each journal. ISSN is the online publications and ISBN is the printed publications (mostly used for books). As we can see in the following figure in some journals there are two id, the one is the ISSN and the other is the ISBN.

```
SCImago[1:6,c(2,4)]
```

##	Title	Issn
## 1	Journal of Finance	ISSN 15406261, 00221082
## 2	Review of Financial Studies	ISSN 08939454, 14657368
## 3	Journal of Financial Economics	ISSN 0304405X
## 4	Journal of Accounting and Economics	ISSN 01654101
## 5	Journal of Management	ISSN 01492063
## 6	Family Business Review	ISSN 08944865

2.5 SJR

SJR is our main rank measure of our list. Our list is ordered by SJR number and so we can rank the Titles. According to SCImago SJR is:

“The Scimago Journal Rank (SJR) is based on the transfer of prestige from a journal to another one; such prestige is transferred through the references that a journal do to the rest of the journals and to itself.”[68]

First let's have a look at the Five-number summary of our values

```
summary(SCImago$SJR)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	0.1000	0.2013	0.3960	0.9616	0.8772	14.5500

We have a Min of 0.1 and our Max is 14.55 with median value of 0.396 . So there is a big difference between our values. On the next histogram we see how the data are distributed.

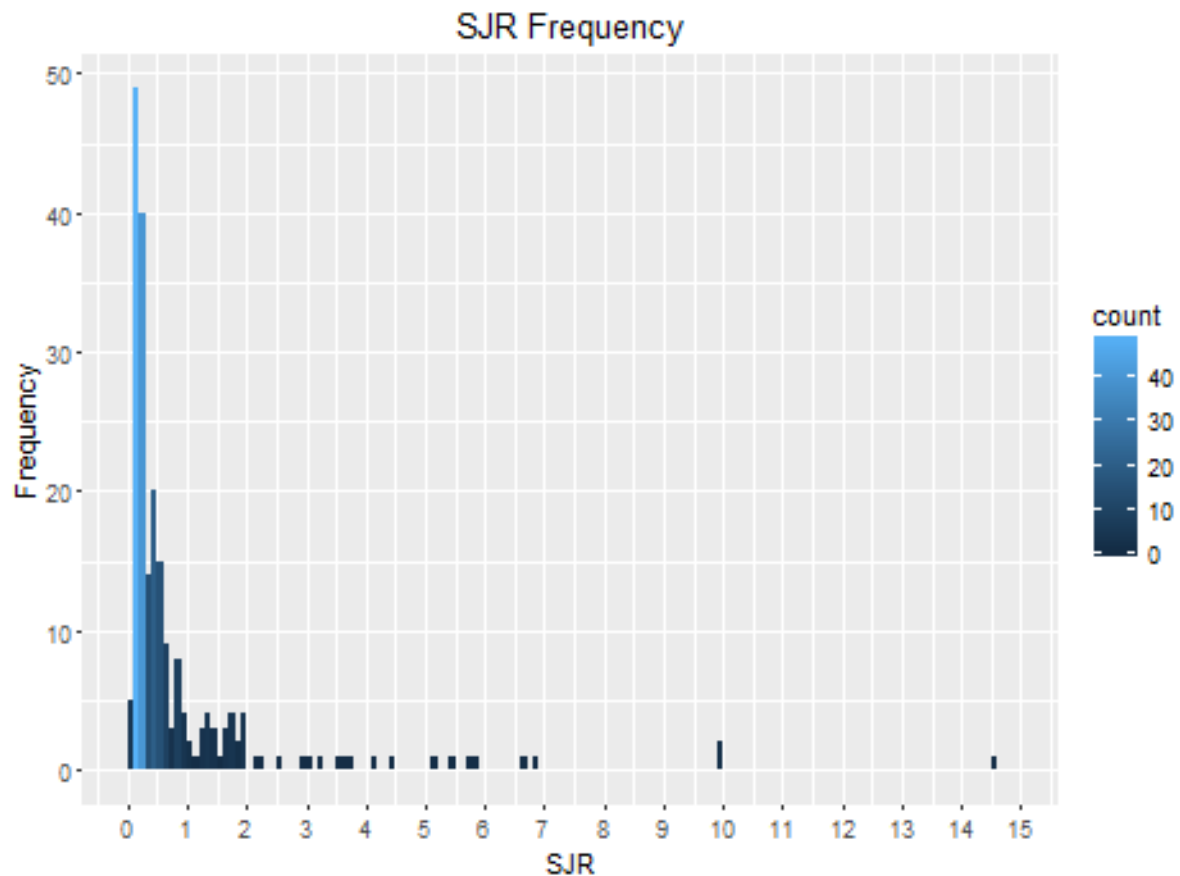


Figure 2.0.1 Sjr Frequency

As we can see from the histogram the most of our observation lay between 0 to 1 .So we created the frequency distribution of SJR to figure out the percentage that is between 0 and 1.

```
breaks<-seq( 0.1, 15 ,by=0.1)
SJR.cut<-cut(SCImago$SJR,breaks,right = FALSE)
Frequency<-table(SJR.cut)
Percentage<-Frequency/nrow(SCImago)
old = options(digits=1)
SJR_rel_fre<-cbind(Frequency,Percentage)
SJR_rel_fre[1:10,]
```

```
##           Frequency Percentage
## [0.1,0.2)         53      0.248
## [0.2,0.3)         41      0.192
## [0.3,0.4)         14      0.065
## [0.4,0.5)         20      0.093
## [0.5,0.6)         15      0.070
## [0.6,0.7)          9      0.042
## [0.7,0.8)          3      0.014
## [0.8,0.9)          8      0.037
## [0.9,1)           4      0.019
## [1,1.1)           1      0.005
```

Here we see the first ten classes of SJR, we observe that the values 0 to 1 lay in the first nine classes. The class's width is 0.1 according to my estimates. We have set our own width because of the abnormal data values.

```
SJR_freq_Perce<-as.data.frame(SJR_rel_fre)
SJR_freq_Perce<-SJR_freq_Perce %>% filter( Frequency>0) %>% mutate(Percentage=100 * Percentage)
SJR_frequency <-select(SJR_freq_Perce,Frequency,Percentage)

nrow(SJR_frequency)

## [1] 38

SJR_frequency[1:9,]

##   Frequency Percentage
## 1         53         24.8
## 2         41         19.2
## 3         14          6.5
## 4         20          9.3
## 5         15          7.0
## 6          9          4.2
## 7          3          1.4
## 8          8          3.7
## 9          4          1.9

Top9<-SJR_frequency[1:9,]
sapply(Top9,sum)

##   Frequency Percentage
##          167   78.03738
```

From the 38 classes we have, the first 9 (which correspond to SJR values between 0 to 1) contain the 78.78% of our data. There are 167 journals, book series and Conference & Proceedings form the total 214 titles we have on our list that their SJR lays between 0 and 1.

2.5.1 SJR.Quartile

Quartile contains 4 elements Q1, Q2, Q3 and Q4 which show how the titles have been categorized by SCImago . Q1 refers to the top 25% SJR, Q2 to 25%-50% SJR ,Q3 to the 50%-75% and Q4 to the last 25%. – **SCImago list doesn't includes Conference & Proceedings into this categorization although they have an SJR value.**

Definition of quartiles

*'A data set has three quartiles, which we denote Q1, Q2, and Q3. Roughly speaking, the **first quartile, Q1**, is the number that divides the bottom 25% of the data from the top 75%; the **second quartile, Q2**, is the median, which, as you know, is the number that divides the bottom 50% of the data from the top 50%; and the **third quartile, Q3**, is the number that divides the bottom 75% of the data from the top 25%. Note that the first and third quartiles are the 25th and 75th percentiles, respectively.'* [75]

SCImago uses the quartiles to categorize into groups as it is explained and not defining the number that divides them into groups and also it does that in descending order instead of ascending order. So lets the differences we have here.

Quartiles

```
summary(SCImago$SJR)
```

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
## 0.1000  0.2013  0.3960  0.9616  0.8772  14.5500
```

So Q1= 0.2013, Q2=0.396 and Q3= 0.8772

SCImago Quartiles

Q1=[0.890-14.55] , Q2=[0.405-0.879], Q3=[0.206-0.397], Q4=[0.101-0.205].

These are the quartiles as they are given by SCImago, in our analysis we will use the SCImago quartiles.

Here follows the five number summary for each quartile to see how SJR is distributed in each quartile.

```
Quart<- SCImago %>% select(SJR,SJR.Quartile)
Q1<- Quart %>% filter(SJR.Quartile == "Q1")
Q2<- Quart %>% filter(SJR.Quartile == "Q2")
Q3<- Quart %>% filter(SJR.Quartile == "Q3")
Q4<- Quart %>% filter(SJR.Quartile == "Q4")
```

Q1

```
summary(Q1)
```

```
##      SJR      SJR.Quartile
##  Min.   : 0.890      - : 0
##  1st Qu.: 1.316      Q1: 53
##  Median : 1.775      Q2: 0
##  Mean   : 2.890      Q3: 0
##  3rd Qu.: 3.505      Q4: 0
##  Max.   :14.546
```

Q2

```
summary(Q2)
```

```
##      SJR      SJR.Quartile
##  Min.   :0.4050      - : 0
##  1st Qu. :0.4710      Q1: 0
##  Median  :0.5450      Q2: 53
##  Mean    :0.5707      Q3: 0
##  3rd Qu. :0.6280      Q4: 0
##  Max.    :0.8790
```

Q3

```
summary(Q3)
```

```
##           SJR           SJR.Quartile
## Min.      :0.2050      - : 0
## 1st Qu.   :0.2250     Q1: 0
## Median    :0.2660     Q2: 0
## Mean      :0.2733     Q3: 53
## 3rd Qu.   :0.3100     Q4: 0
## Max.      :0.3970
```

Q4

`summary(Q4)`

```
##           SJR           SJR.Quartile
## Min.      :0.1010      - : 0
## 1st Qu.   :0.1130     Q1: 0
## Median    :0.1450     Q2: 0
## Mean      :0.1451     Q3: 0
## 3rd Qu.   :0.1750     Q4: 53
## Max.      :0.2050
```

So in Q2, Q3 and Q4 our data are distributed well whereas in Q1 the data are still abnormal. We illustrate a boxplot graph that show us how SJR is distributed by the quartile they belong.

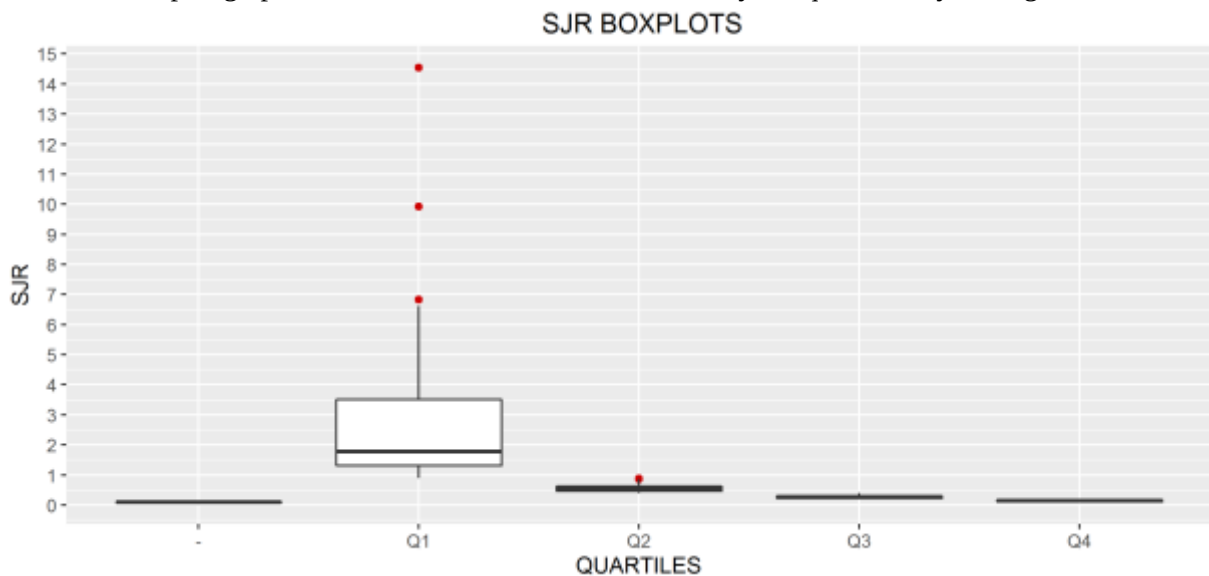


Figure 2.0.2 Sjr Boxplots

We can see the big differences between the quartiles and the red dots are the outliers. Actually we can't say anything for quartiles Q2, Q3 and Q4 so we have made another Boxplot graph with only Q2, Q3, and Q4 and also we have added the jitter points on the plot to see where most of them are.

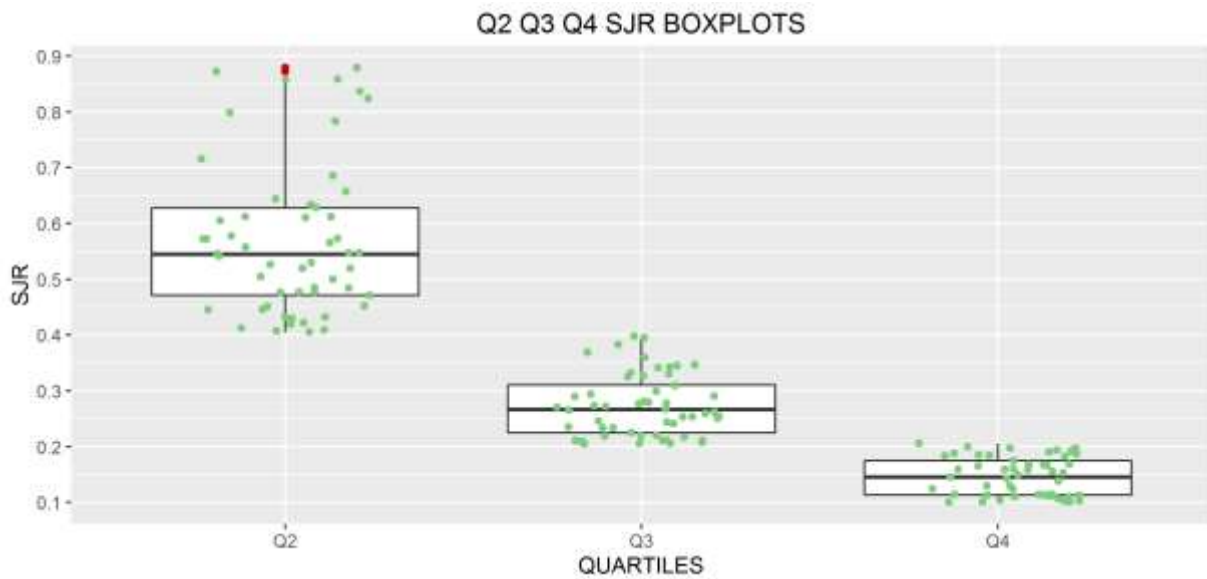


Figure 2.0.3 Q2 Q3 Q4 Boxplots

So now we have a better view to explain the quartiles. We see that only in Q2 we have outliers. Because in each quartile the upper limit is greater than the lower limit the distributions are still right skewed but not extreme like Q1. Also we have to say that the mean and the median are moreover the same. Finally as we move to lowest observations the variation decreases.

We have created a bar plot of each quartile (Q1, Q2, Q3, Q4,-) and calculated the SJR which is located under that quartile.

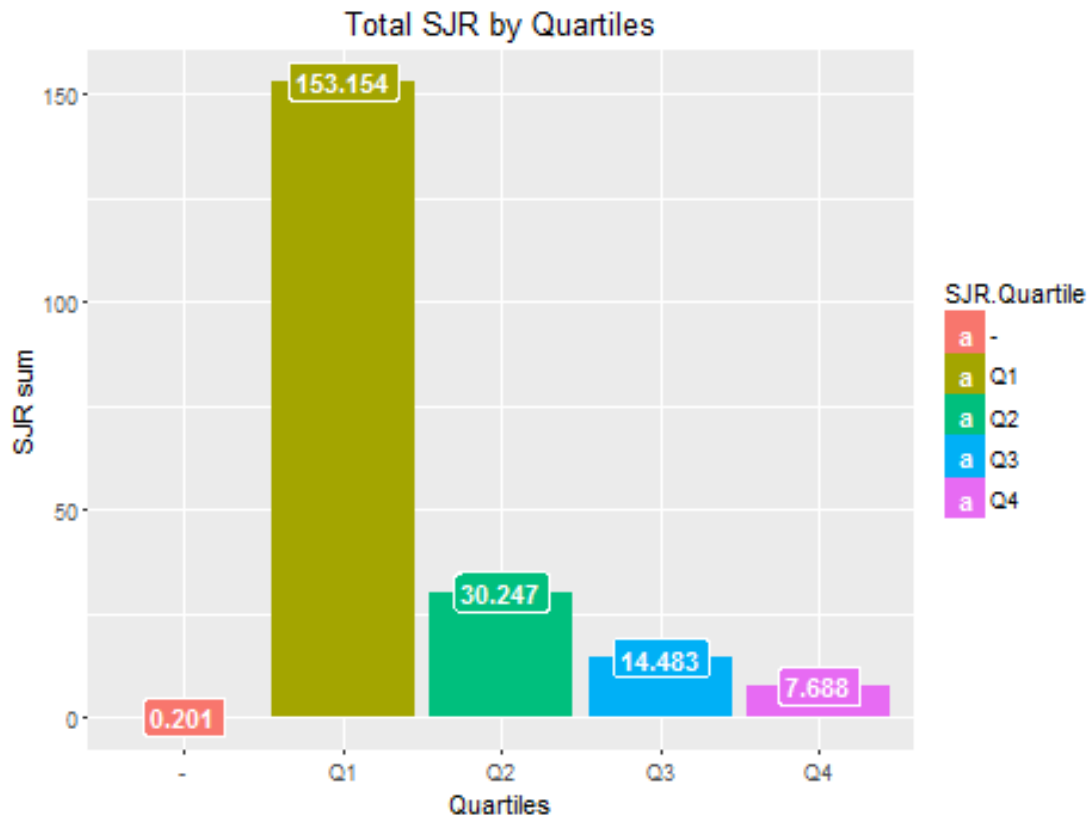


Figure 2.0.4 Total Sjr in Quartiles

As it was obvious Q1 has the highest proportion of SJR with a total sum of 153.154 whereas Q2 has 30.247 total sum of SJR, here we have an extreme plunge 80.25% and this tell us that the top titles have a very high prestige in contrast with Q2, Q3 and Q4 titles. The difference is so big that event that Q1 is nearly 3 times more than Q2, Q3 and Q4 ($52.418 * 3 = 157.254$). Q3 has 14.483 total SJR which is slightly under the first titles SJR.

```
SCImago[1,1:5]
```

##	Rank	Title	Type	Issn	SJR
##	1	Journal of Finance	journal	ISSN 15406261, 00221082	14.546

Here maybe we can say that the prestige and the “power” of the journal *Journal of Finance* is slightly greater from all the journals in Q3.

2.6 H Index

“The h index is a measure of the number of highly impactful papers a scientist has published. The larger the number of important papers, the higher the h-index, regardless of where the work was published.”

To count this index, we need two pieces of information from our data. First the total number of papers published (N_p) and second the number of citations (N_c) for each paper. The H Index is defined by how many h of a researcher's publications (N_p) have at least h citations each. In order to understand this index better we can ask ourselves, “Have I published one paper that's been cited at least once?” If yes we have got H-index is 1. Consequently “Have I published two papers that have each been cited at least twice each? If answer is yes our H-index is 2” [32].

After explaining the meaning of H index we will show how it appears on our list. First we present a frequency graph to see how H index is distributed, then H index boxplots and final a bar plot which show us the total sum of H index in each quartile. Moreover we have made the same analysis as SJR to detect any similarities or differences.

Before we explain our graphs display the five number summary of H index. So let's have a look on our data.

```
Hinde<- SCImago %>% select(H.index,SJR.Quartile)
summary(Hinde)

##      H.index      SJR.Quartile
## Min.   :  1.00   - :  2
## 1st Qu.:  6.00   Q1:53
## Median : 12.00   Q2:53
## Mean   : 25.20   Q3:53
## 3rd Qu.: 31.75   Q4:53
## Max.   :213.00
```

So we have a min value 1 and max value 213 with a median 12 and mean 25.2. Both SJR and H index frequencies are right skewed and this is because of some extreme values in our data.

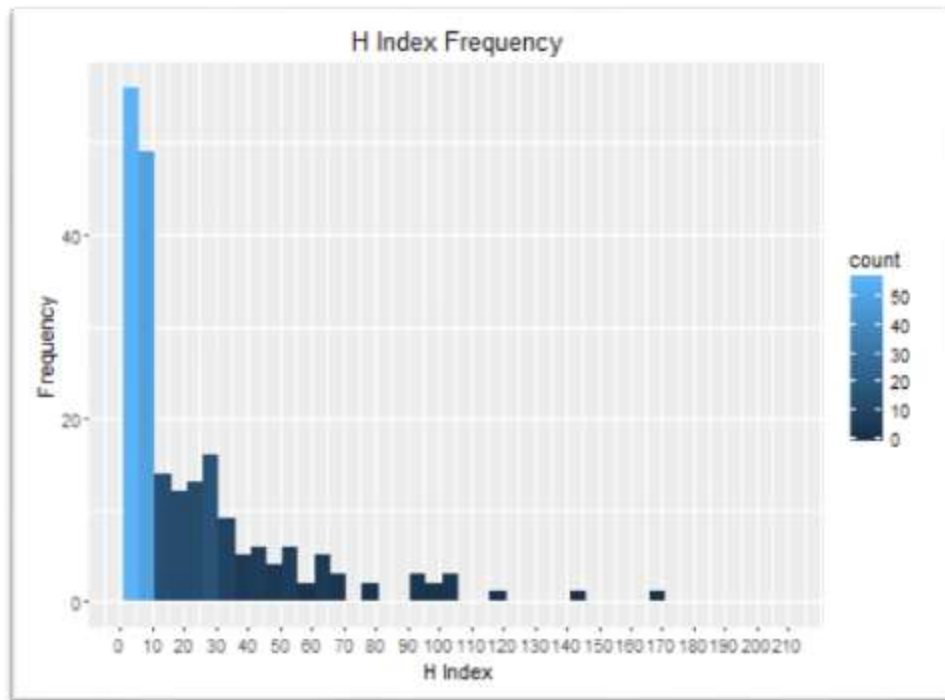


Figure 2.0.1 H index Frequency

2.6.1 H index Quartiles

Here follows the five number summaries for each quartile to see how H index is distributed in each quartile.

```
Q1<- Hinde %>% filter(SJR.Quartile == "Q1")
Q2<- Hinde %>% filter(SJR.Quartile == "Q2")
Q3<- Hinde %>% filter(SJR.Quartile == "Q3")
Q4<- Hinde %>% filter(SJR.Quartile == "Q4")
```

Q1

```
summary(Q1)
```

```
##      H.index      SJR.Quartile
##  Min.   : 8.00   - : 0
##  1st Qu.: 30.00  Q1: 53
##  Median : 55.00  Q2: 0
##  Mean   : 58.87  Q3: 0
##  3rd Qu.: 77.00  Q4: 0
##  Max.   :213.00
```

Q2

```
summary(Q2)
```

```
##      H.index      SJR.Quartile
##  Min.   : 5.0    - : 0
##  1st Qu.:14.0    Q1: 0
##  Median :24.0    Q2: 53
##  Mean   :25.4    Q3: 0
##  3rd Qu.:34.0    Q4: 0
##  Max.   :64.0
```

Q3

`summary(Q3)`

```
##      H.index      SJR.Quartile
##  Min.   : 1.00   - : 0
## 1st Qu.: 6.00   Q1: 0
##  Median : 9.00   Q2: 0
##   Mean  :11.79   Q3:53
## 3rd Qu.:15.00   Q4: 0
##   Max.   :38.00
```

Q4

`summary(Q4)`

```
##      H.index      SJR.Quartile
##  Min.   : 1.000   - : 0
## 1st Qu.: 3.000   Q1: 0
##  Median : 5.000   Q2: 0
##   Mean  : 5.642   Q3: 0
## 3rd Qu.: 7.000   Q4:53
##   Max.   :23.000
```

After glancing at the five number summaries we have created the respective boxplots.

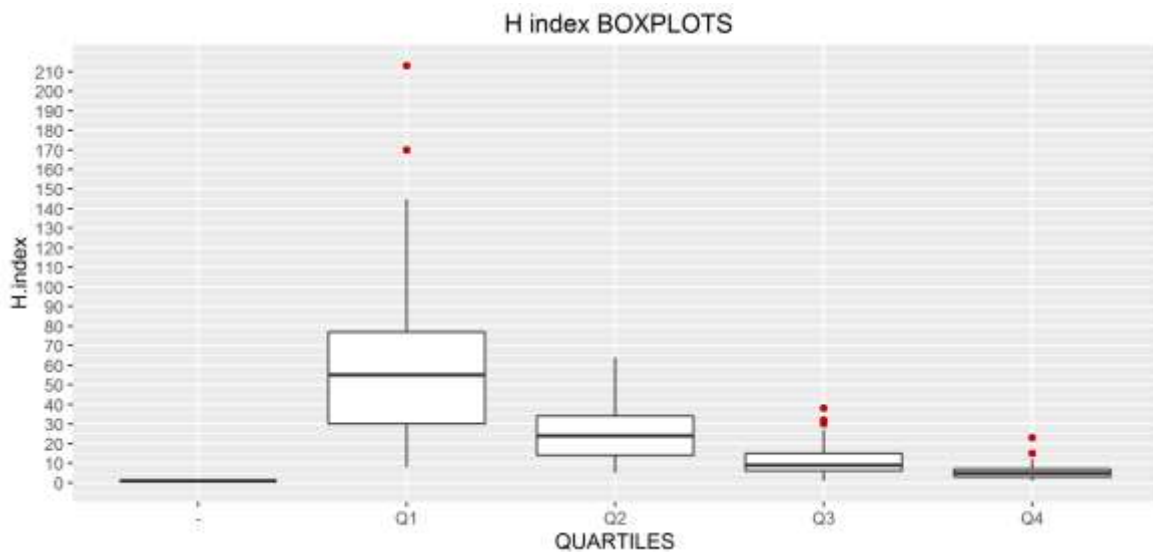


Figure 2.0.2 H index Boxplots

As we see in Figure 0.7 the fourth quart has the greatest variation in each quartile and in Q1, Q3 and Q4 we have outliers. Also in H index observation we have some differences but not as much as SJR's. Because is hard to explain Q2, Q3, and Q4 we have made a second boxplot graph which only them are visualized.

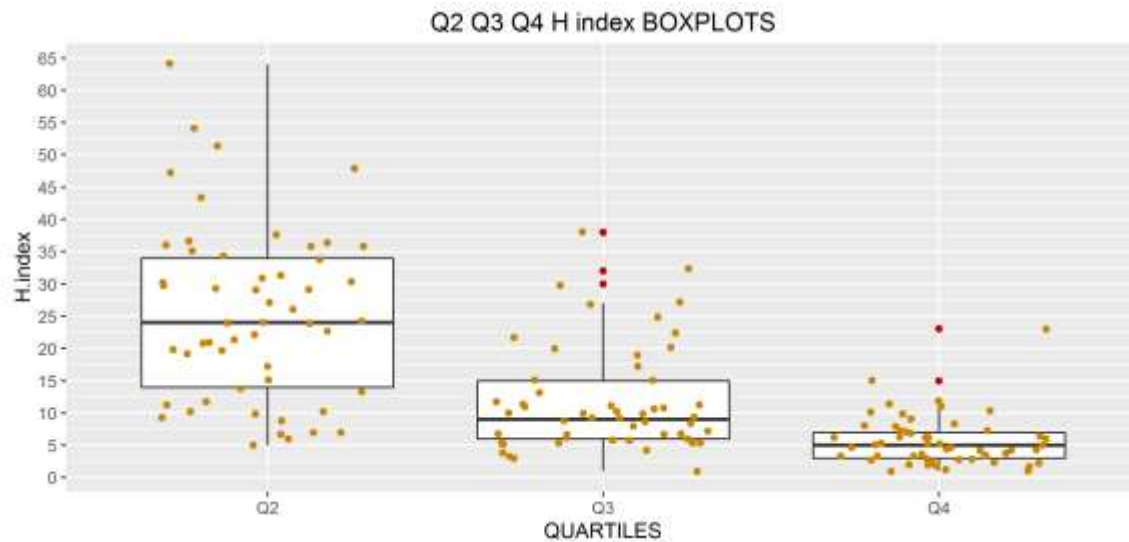


Figure 2.0.3 Q2 Q3 Q4 Boxplots

Again here we have a right skew distribution and in Q2 and Q4 the mean and median are moreover equal in contrast with Q3 where the median is lower. In Q3 the variation in the third quart is greater than the Q2 and Q4 third quart variation.

The last graph is the total H index in each quartile. It reveals the sum of each titles H index in the quartile they belong. We have made this plot so we can understand the differences between the total H index in the quartiles.

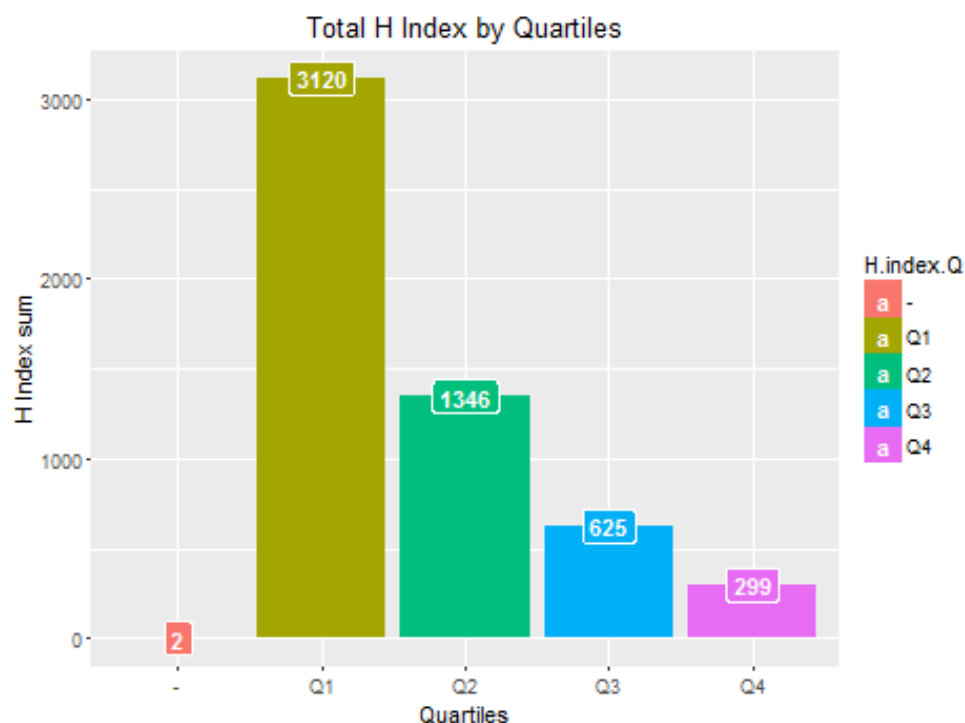


Figure 2.0.4 Total H index in Quartiles

As we expected, Q1 has the greatest H index, 3120 which is 2.32 times greater than Q2. Just as Total SJR graph we have the same rank results and for Q2, Q3 and Q4 nearly the same deviations among the

quartiles. But there is an extreme difference is Q1 to Q2. SJR deviation is 5.06 times Q2 while in H index the deviation is 2.32 times Q2.

This comparison shows us that they are some differences between these indicators. The impact measure of SJR is higher than H index among the titles in Q1. But this result is comes because the data are ranked by SJR so what happens when we will sort our data by H index.

2.7 Sorted H index

First of all we have created a list called Sorted H index which is SCImago but sorted by H index in descending order. Furthermore we have added a column called H index Quart which is the H index quartiles just like SJR quartile column in SCImago . In fact after sorting our list SJR quartile has been sorted also so we have puted the SCImago Sjr quartile values in an variable called SjQ and inserted this variable as a column in Sorted H index. So now we have both SJR quartiles and H index quartiles each sorted by their indicators SJR and H index respectively. After creating the H index quartile we have putted in our original list SCImago.

With this code we create the H index quartile in the SCImago list.

```
SCImago<-read.csv("scimago_finance_2015.csv")
SjQ<-SCImago$SJR.Quartile
Sorted.Hindex<-SCImago %>% select(Rank:H.index) %>% arrange(-H.index)
Sorted.Hindex$H.index.Quarttile<-SjQ
Sorted.Hindex<- arrange(Sorted.Hindex, -SJR)
HinQ<-Sorted.Hindex$H.index.Quarttile
SCImago$H.index.Quarttile<-HinQ
```

2.7.1 H index boxplots

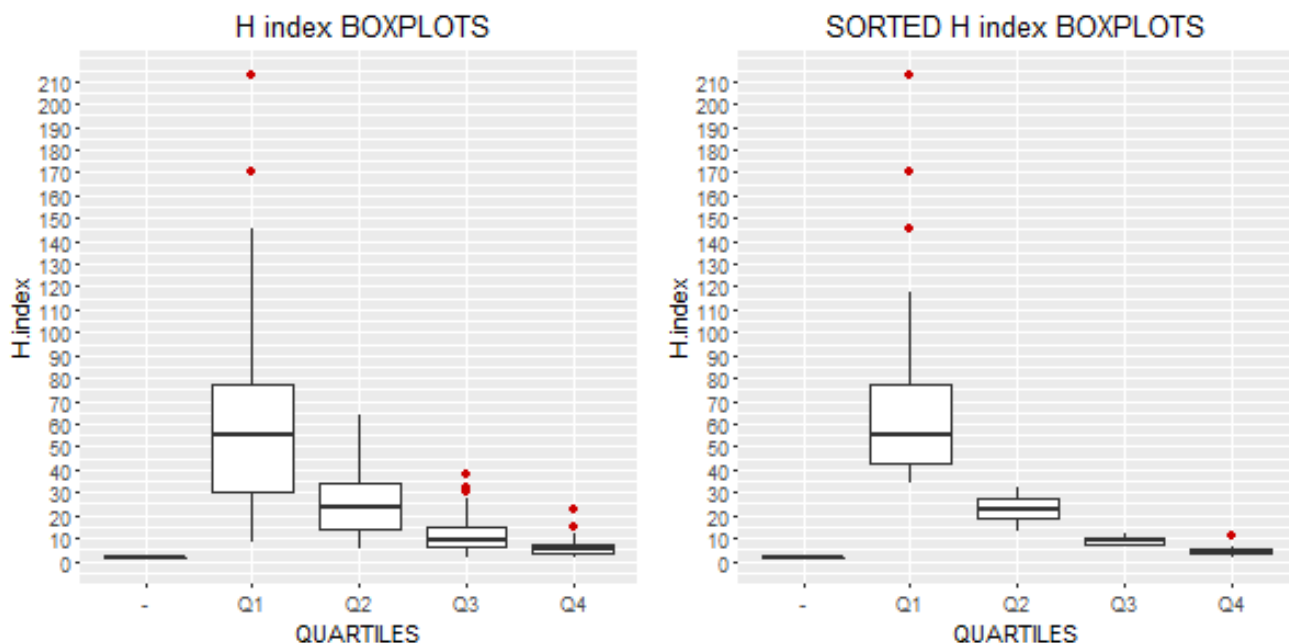


Figure 2.0.1 H index & Sorted H index Boxplots

After sorting H index we can see the differences in the each quartile. Q1 has more outliers and a higher variation. Q2, Q3 and Q4 have smaller values and only Q4 has an outlier. Because of the extreme values of Q1 we created a plot with Q2, Q3 and Q4.

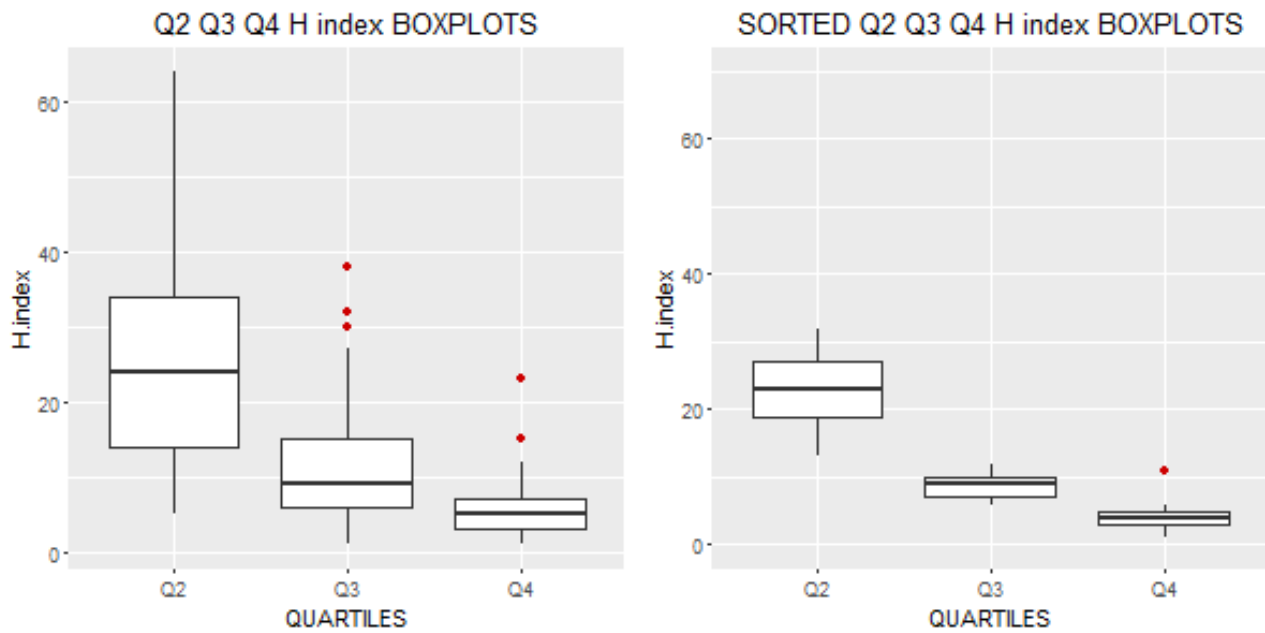


Figure 2.0.2 Q2 Q3 Q4 H index & Sorted H index Boxplots

So when we sort our values we don't have extreme upper limits nor so many outliers. In each quartile the variations are much smaller. Before we move in answering our question let's see the SJR boxplots when H index is sorted.

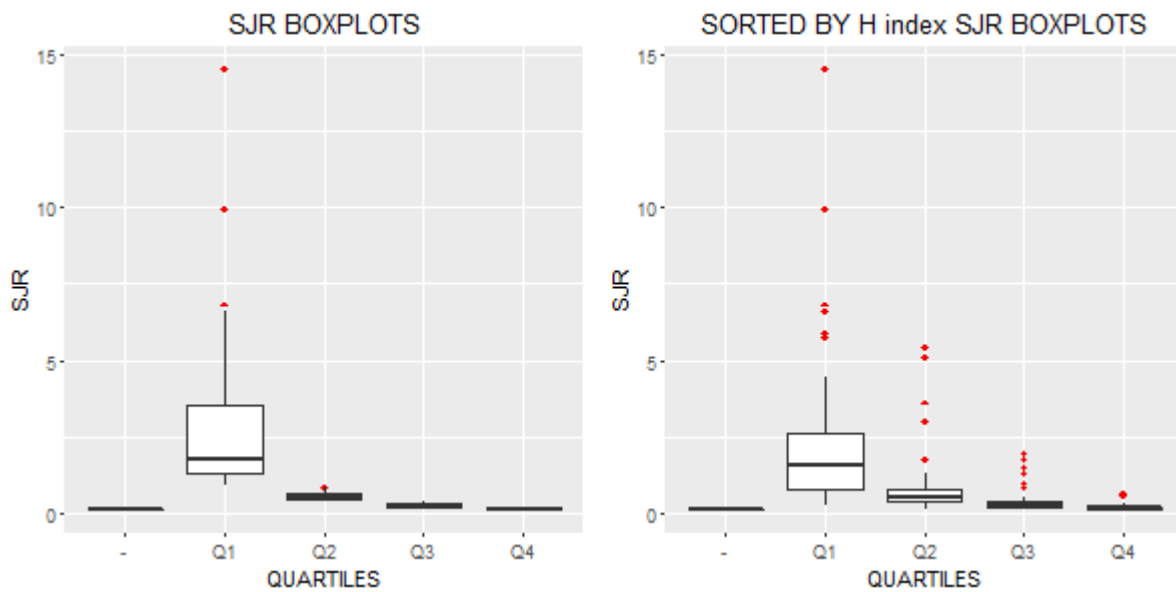


Figure 2.0.3 Sjr & Sorted H index Boxplots

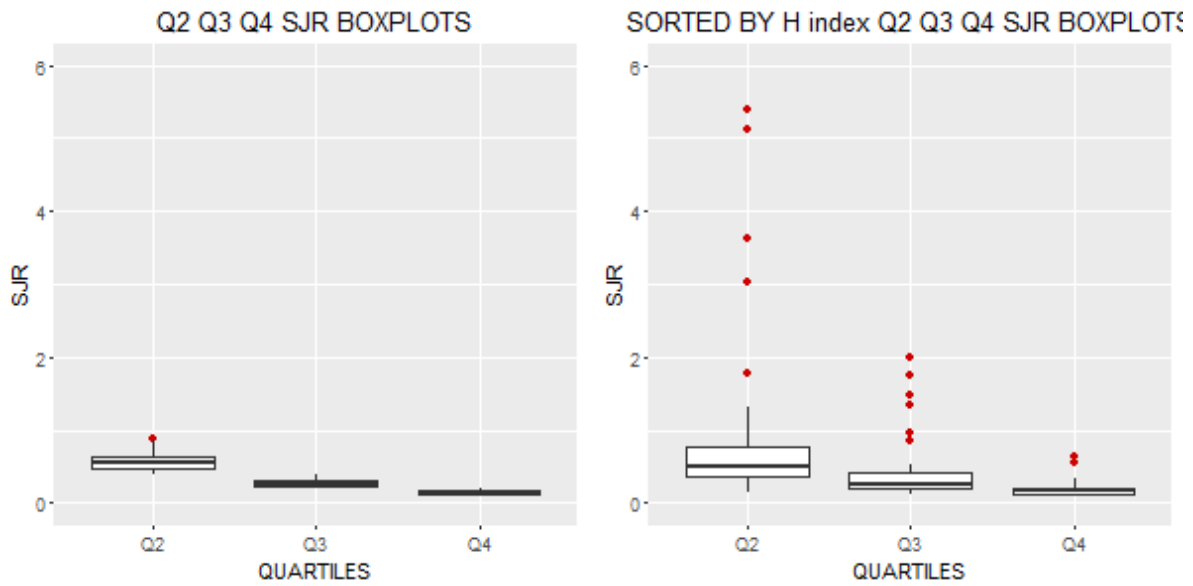


Figure 2.0.4 Q2 Q3 Q4 Sjr & Sorted H index Boxplots

So when the SJR is sorted by H index the boxplots have a greater variation and also a greater SJR (Q2 < 1 and when Q2 is sorted by H index is < 2) without the outliers. Also we can see that we have many outliers which means that H index has a correlation with SJR when the observations are sorted by SJR ranking but they don't when they are sorted by H index ranking.

So we created the Total H index and Total SJR when H index is sorted to see the differences and we have

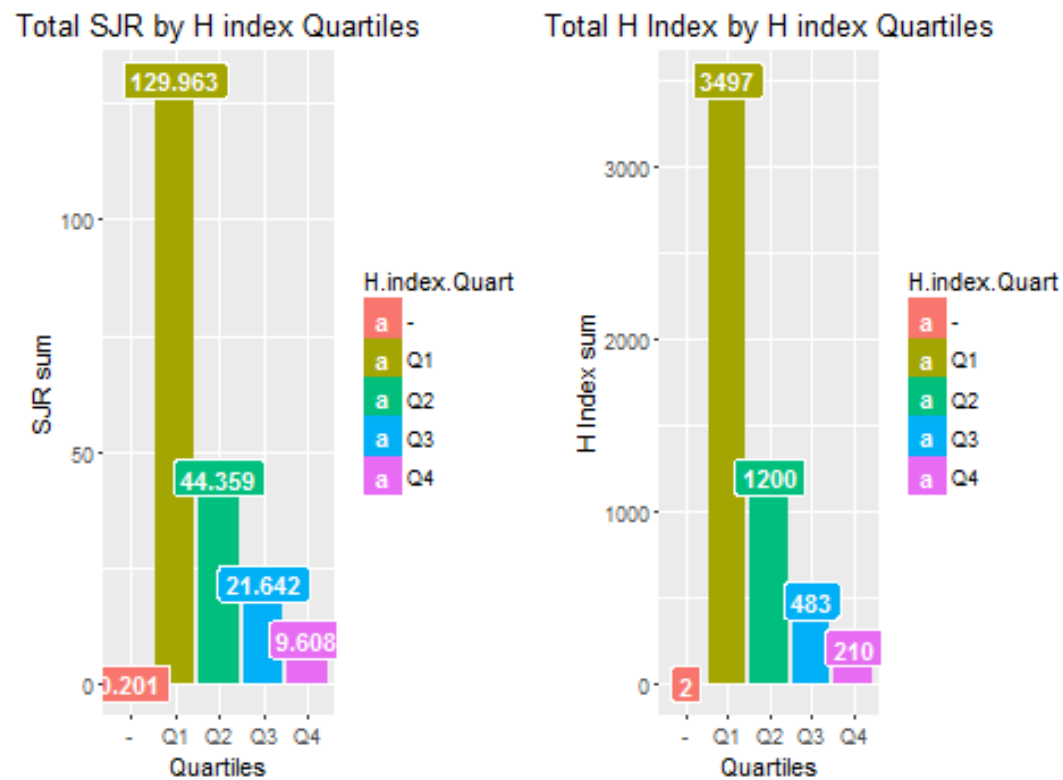


Figure 2.0.5 Total Sjr by Sjr & H index Quartiles

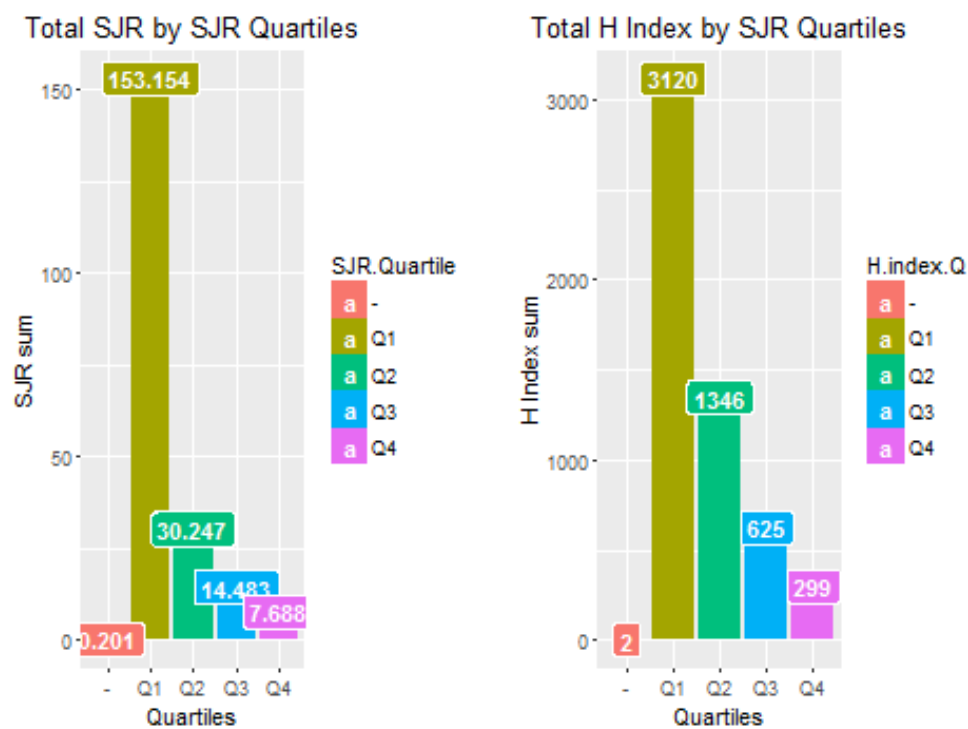


Figure 2.0.6 Total Sjr by Sjr & Sjr Quartiles

The results from the different ordering are

1. When our data are sorted by SJR
SJR: Q1 is **5.06** times Q2
H Index: Q1 is **2.32** times Q2
2. When our data are sorted by H index
SJR: Q1 is **2.92** times Q2
H Index: Q1 is **2.91** times Q2.

According to these results we can say that when sorting by H index the impact measure is the same but when sorting by SJR the impact measure of SJR is higher than H index more than double. So this drives us to the conclusion that SJR is a better indicator than H index for the top 25% of our data.

1. When our data are sorted by SJR
SJR: Q2 is **2.08** times Q3
H Index: Q2 is **2.31** times Q3
2. When our data are sorted by H index
SJR: Q2 is **2.05** times Q3
H Index: Q2 is **2.48** times Q3

But for the 25%-50% of our data H index seems slightly better impact measure indicator for our values.

3. When our data are sorted by SJR
SJR: Q3 is **1.88** times Q4
H Index: Q3 is **2.09** times Q4
4. When our data are sorted by H index
SJR: Q3 is **2.25** times Q4
H Index: Q3 is **2.30** times Q4

And for the 50%-75% of our data both are the same.

In conclusion for a group of high values SJR is a better indicator whereas for a group of low values SJR and H index are quite the same.

2.8 Category

In SCImago there are 27 subject areas and 313 categories. We have taken the SCImago where the category is Finance during 2015. But we noticed that each title may have multiple subject areas and categories. We have to say here that each category belongs to a Subject area, in our case Finance is a Subcategory of Economics, Econometrics and Finance. But Economics, Econometrics and Finance contain also other categories. Our aim here is to see the allocation of our titles into the Subjects areas and categories they belong to, apart from the Subject area Economics, Econometrics and Finance with Finance category which all of our titles belong to.

First of all we created a file in Excel which contains all the Subjects areas and Categories each title belong to. This is given by searching each title in SCImago website. Each title has its own page and from there you can extract any detail for the title. So after creating this file I saved it in a .csv format make the analysis in R.

First of all let's see our list.

```
names(SCImago_Category)
```

```
## [1] "Title"          "Type"           "Issn"
## [4] "SJR"            "SJR.Rank"       "SJR.Quartile"
## [7] "H.index"        "Country"        "Subject.Area"
## [10] "Subject.Area2"  "Subject.Area3"  "Subject.Area4"
## [13] "Subject.Category" "Subject.Category2" "Subject.Category3"
## [16] "Subject.Category4" "Subject.Category5" "Subject.Category6"
```

So as we can see our titles are between 1 and 4 Subject areas and between 1 and 6 Categories. The columns "Subject.Area" and "Subject.Category" are our main subject area and category as mentioned above Economics, Econometrics and Finance and Finance respectively, so each title has these elements.

2.9.1 Subject Areas

Total

##		Frequency	Percent
##	S.area2	139	64.95
##	S.area3	24	11.21
##	S.area4	2	0.93

So from our data we have that 64.95% have 2 subject areas, 11.21% have 3 subject areas and 0.93 have 4 subject areas.

For the titles that have 2 subject areas we demonstrate the table to see these areas and which one is the greatest.

Area2

```
## # A tibble: 7 × 3
##           Subject.Area2      n Percent
##           <fctr> <int>   <dbl>
## 1           Arts and Humanities      1    0.47
## 2 Business, Management and Accounting 113   52.80
## 3           Computer Science        3    1.40
## 4           Decision Sciences        2    0.93
## 5           Mathematics            3    1.40
## 6           Psychology             1    0.47
## 7           Social Sciences       16    7.48
```

Business, Management and Accounting is the second Subject Area with 52.8% of the titles participating also this area.

Area3

```
## # A tibble: 6 × 3
##           Subject.Area3      n Percent
##           <fctr> <int>   <dbl>
## 1           Computer Science        3    1.40
## 2           Decision Sciences        7    3.27
## 3 Environmental Science            1    0.47
## 4           Health Professions        2    0.93
## 5           Mathematics            4    1.87
## 6           Social Sciences        7    3.27
```

Area4

```
## # A tibble: 1 × 3
##           Subject.Area4      n Percent
##           <fctr> <int>   <dbl>
## 1 Social Sciences        2    0.93
```

These are the journals that have 4 Subject areas

```
##           Title                                     Type      Issn
## Mathematical Finance                             journal ISSN 14679965, 09601627
## Critical Perspectives on Accounting                journal ISSN 10452354, 10959955

##    SJR    SJR.Rank  SJR.Quartile  H.index
## 1.671     31         Q1           55
## 1.004     47         Q1           41
```

Mathematical Finance and Critical Perspectives on Accounting are the two journals that are in 4 Subject areas. They are both in the Q1 category and they are Journals with SJR 1.671 and 1.004 respectively.

2.9.2 Subject Categories

Total

##	Frequency	Percent
## S.Category2	200	93.46
## S.Category3	108	50.47
## S.Category4	30	14.02
## S.Category5	6	2.80
## S.Category6	1	0.47

So from our analysis we have that 93.46 % of our titles are in two categories, 50.47% are in 3 categories, 14.02 % in 4, 2.8% in 5 and 1 title is in 6 categories.

Let's see each category what Subject Categories do they contain

Category2

## # A tibble: 18 × 3			
##	Subject.Category2	n	Percent
##	<fctr>	<int>	<dbl>
## 1	Accounting	29	13.55
## 2	Applied Mathematics	2	0.93
## 3	Artificial Intelligence	1	0.47
## 4	Business and International Management	4	1.87
## 5	Business, Management and Accounting (miscellaneous)	8	3.74
## 6	Computer Science Applications	1	0.47
## 7	Development	2	0.93
## 8	Economics and Econometrics	127	59.35
## 9	Economics, Econometrics and Finance (miscellaneous)	13	6.07
## 10	Experimental and Cognitive Psychology	1	0.47
## 11	History	1	0.47
## 12	Law	2	0.93
## 13	Management of Technology and Innovation	1	0.47
## 14	Marketing	3	1.40
## 15	Political Science and International Relations	1	0.47
## 16	Statistics and Probability	1	0.47
## 17	Statistics, Probability and Uncertainty	1	0.47
## 18	Strategy and Management	2	0.93

59.35% of our data are also in Economics and Econometrics category, 13.55% into accounting category and 6.07% into Economics, Econometrics and Finance (miscellaneous). Here we have to say that *Finance*, *Economics and Econometrics* and *Economics, Econometrics and Finance (miscellaneous)* are the three subcategories of the subject area **Economics, Econometrics and Finance**.

Category3

```
## # A tibble: 23 × 3
##           Subject.Category3      n Percent
##           <fctr> <int>    <dbl>
## 1           Accounting      49    22.90
## 2       Artificial Intelligence       1     0.47
## 3 Business and International Management    12     5.61
## 4 Business, Management and Accounting (miscellaneous) 6     2.80
## 5       Computer Networks and Communications       1     0.47
## 6       Computer Science Applications       1     0.47
## 7 Computer Vision and Pattern Recognition       1     0.47
## 8                Development       2     0.93
## 9 Geography, Planning and Development       3     1.40
## 10        Health (social science)       1     0.47
## # ... with 13 more rows
```

Category4

```
## # A tibble: 15 × 3
##           Subject.Category4      n Percent
##           <fctr> <int>    <dbl>
## 1           Applied Mathematics       1     0.47
## 2 Business and International Management     4     1.87
## 3 Business, Management and Accounting (miscellaneous) 4     1.87
## 4           Computational Mathematics       1     0.47
## 5       Computer Networks and Communications       1     0.47
## 6       Computer Science Applications       1     0.47
## 7           Information Systems       1     0.47
## 8 Information Systems and Management       1     0.47
## 9 Management, Monitoring, Policy and Law       1     0.47
## 10 Political Science and International Relations     2     0.93
## 11       Sociology and Political Science       1     0.47
## 12           Sports Science       2     0.93
## 13 Statistics and Probability       1     0.47
## 14       Strategy and Management       8     3.74
## 15           Urban Studies       1     0.47
```

Category5

```
## # A tibble: 5 × 3
##           Subject.Category5      n Percent
##           <fctr> <int>    <dbl>
## 1       Computer Science Applications       1     0.47
## 2 Management Science and Operations Research       1     0.47
## 3       Social Sciences (miscellaneous)       1     0.47
## 4 Statistics, Probability and Uncertainty       1     0.47
## 5       Strategy and Management       2     0.93
```

Category6

```
## # A tibble: 1 × 3
##       Subject.Category6      n Percent
##       <fctr> <int>    <dbl>
## 1 Human-Computer Interaction      1    0.47
```

The title that is in 6 categories is *Journal of Internet Banking and Commerce* :

```
## Title                                     Type      Issn
## Journal of Internet Banking and Commerce journal ISSN 12045357

## SJR      SJR.Rank    SJR.Quartile    H.index
## 0.211      154          Q3          11
```

It has 0.211 SJR and 11 H index, categorized in Q3 and It's a Journal.

2.9 Country

The last column of our list is Country. Country contains each titles country. So will make some plots to see which country has the most titles, the highest SJR and H index.

```
Total_C

## # A tibble: 21 × 2
##       Country      n
##       <fctr> <int>
## 1 United States    72
## 2 United Kingdom   63
## 3 Netherlands      33
## 4 Germany           7
## 5 Australia         5
## 6 Spain              5
## 7 China              3
## 8 France             3
## 9 Switzerland       3
## 10 Canada            2
## # ... with 11 more rows
```

We have 21 countries on our list, we can see the top 10 of them on the Table above. We created a bar plot that shows us the top 10 countries with the most titles.

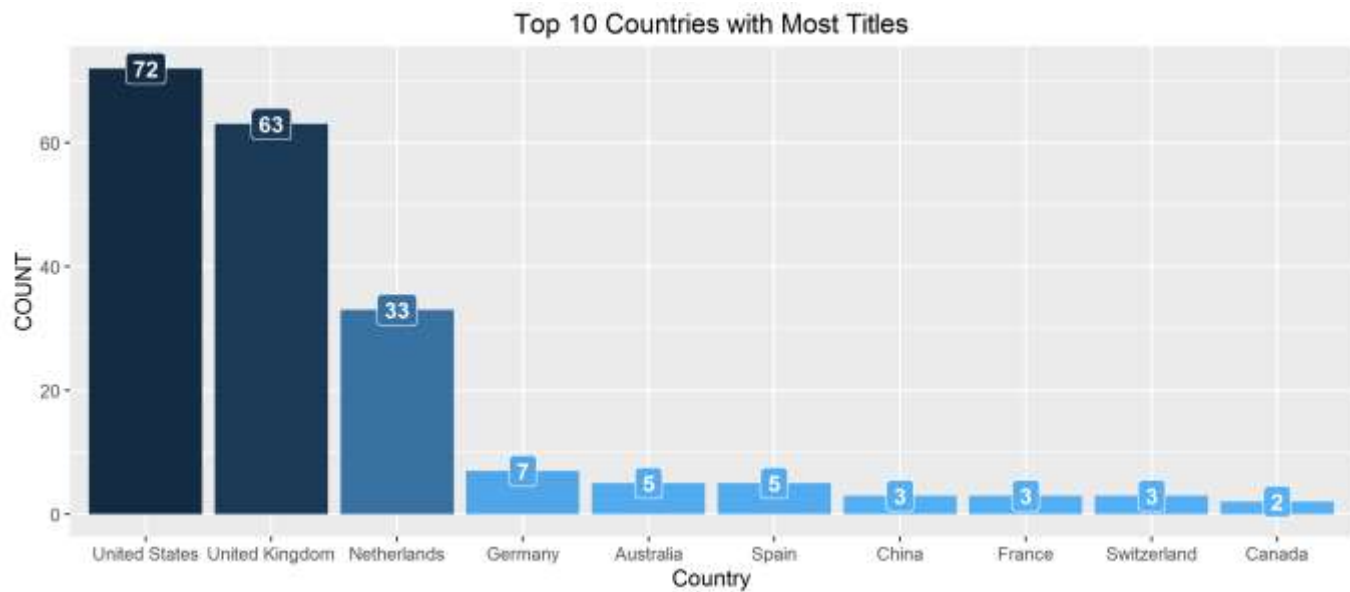


Figure 2.0.1 Top 10 Countries with most journals

From the top 10 USA, UK and Netherlands are the countries that stand out **78.51%** of our titles belong to those three countries. USA has 72 titles, UK 63 and Netherlands 33 moreover half from USA and UK and nearly 5 times the next observation, Germany which has 7 titles.

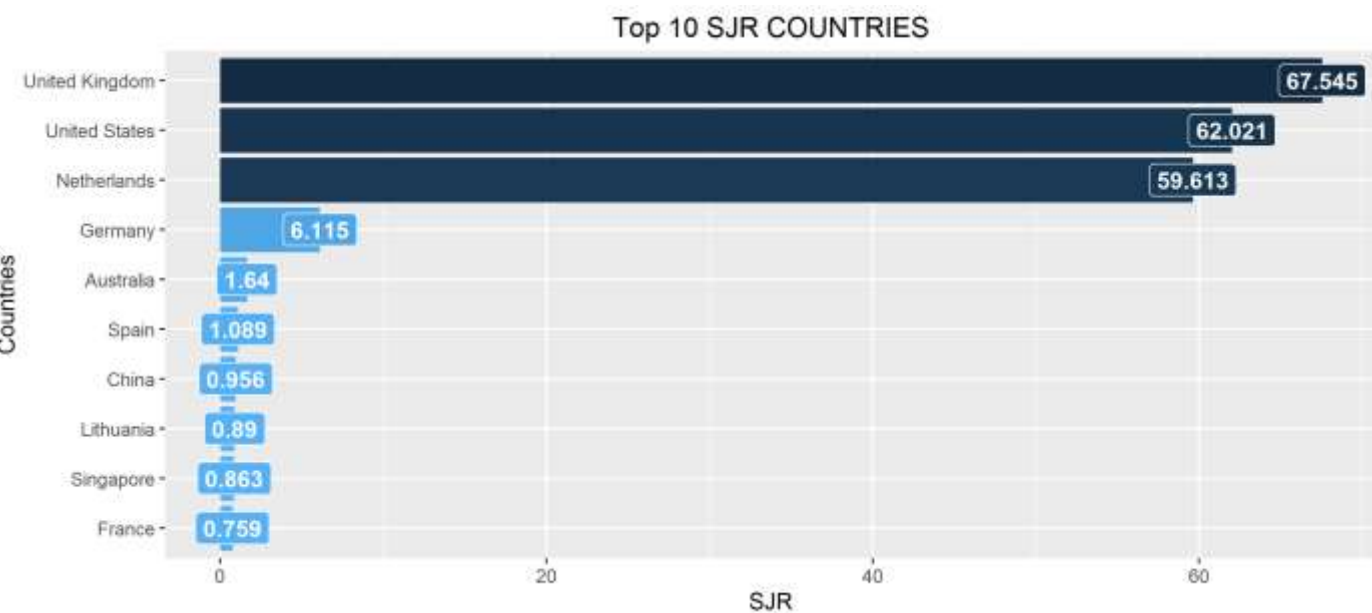


Figure 2.0.2 Top 10 Sjr Countries

In figure 0.17 we have the top 10 countries with the greatest SJR. It is obviously that USA, UK and Netherlands will be the top 3. But UK has the greatest SJR not USA as we expected (according to the titles count above the difference was 9 journals). UK has 67.545 SJR, USA 62.021 and Netherlands 59.613. Here we observe that Netherlands it may have 33 titles but the SJR sum is nearly USAs. This leads us to see in which categories (Q1, Q2, Q3, Q4) their titles belong.

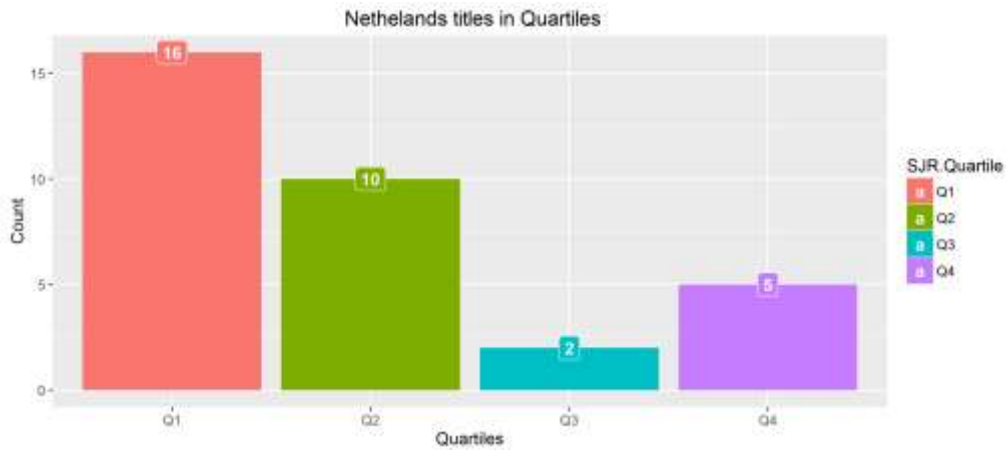


Figure 2.0.3 Netherlands journals Sjr Quartiles

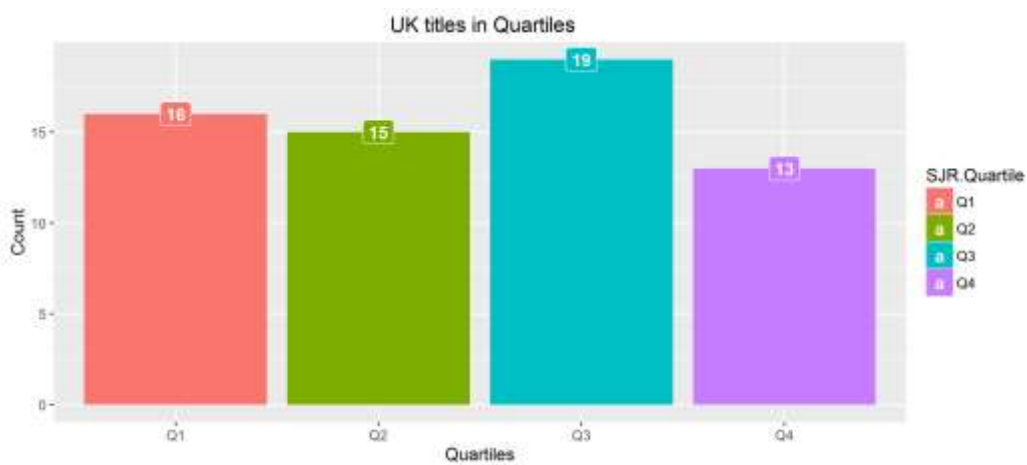


Figure 2.0.4 Uk journals Sjr Quartiles

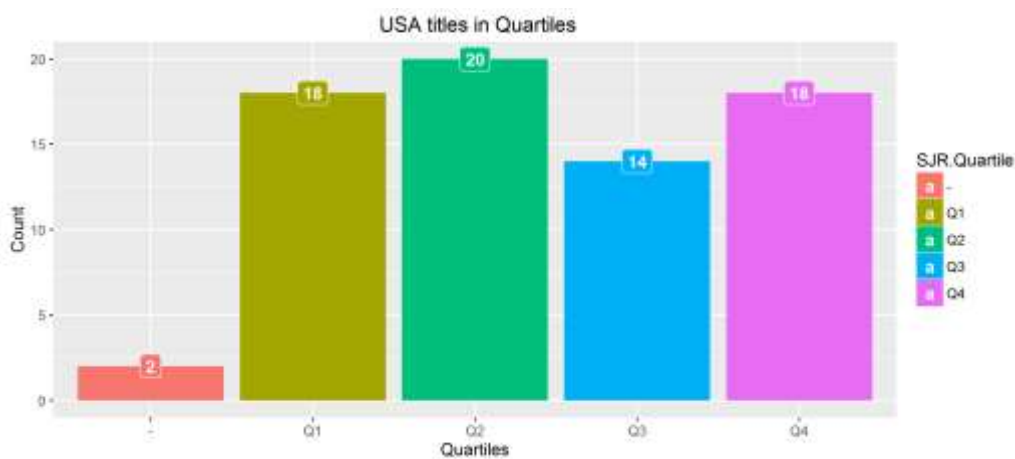


Figure 2.0.5 USA journals Sjr Quartiles

From the three bar plots we have that **94.3%** of Q1 are from USA, UK and Netherlands. Netherlands has 48.5% of its values in Q1 and 30.3% in Q2. UK and USA have moreover the same amount in each category.

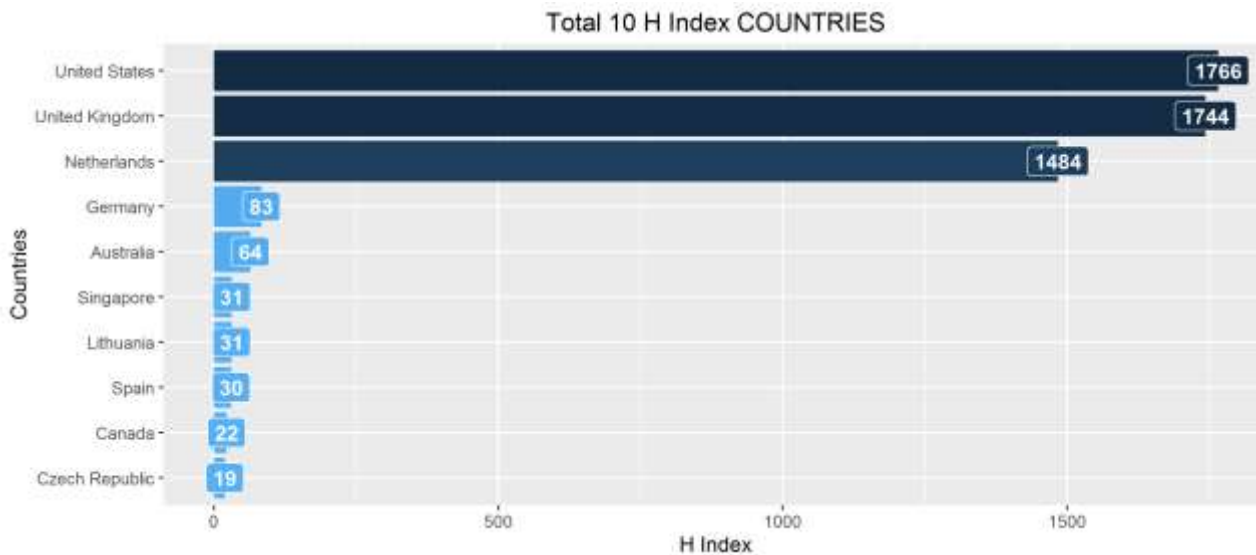


Figure 2.0.6 Top 10 H index Journals

Also with H index USA, UK and Netherlands are the top 3 counties with extreme differences from the other countries. The USA is the country with the highest H index, 1766 and the UK is the second country with 1744 total H index, only 20 units difference. 3rd comes the Netherlands with 1484 and 4th Germany with 83 H index. The value of these graphs is substantial. As we said above, H index is literature measure, if someone has H index equal to 5 means that the he has published at least 5 articles and each of them has been cited at least 5 times. So the USA has H index 1766 this means that the USA published 1766 articles in 2015 which have been cited at least 1766 times each. So overall we can say that at least **3,118,756** articles from the USA journals were cited in 2015, **3,041,563** from the UK journals **2,202,256** from the Netherlands and **6,889** from Germany. So less than 6,889 articles were cited throughout the rest of the counties.

Finally we present the TOP 5 Titles from the top 3 counties.

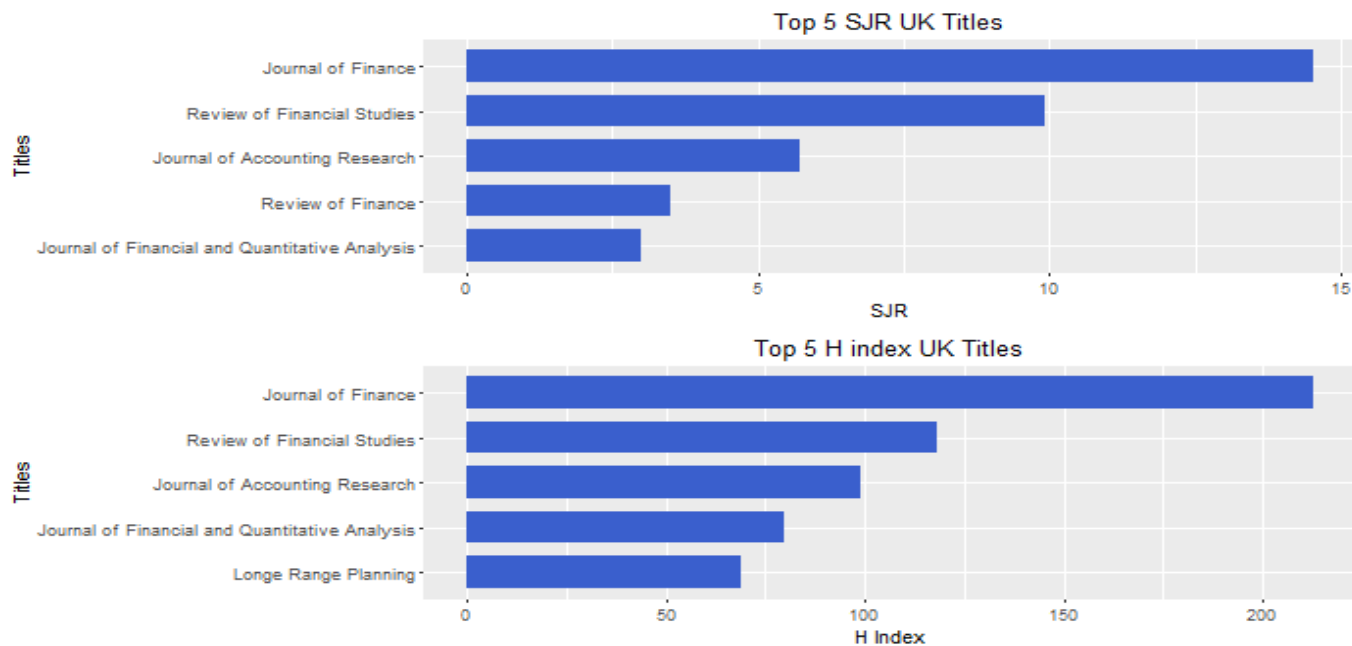


Figure 2.0.7 Top 5 Uk Journals Sjr & H index

UK has 4 same titles in the top five SJR and H index.

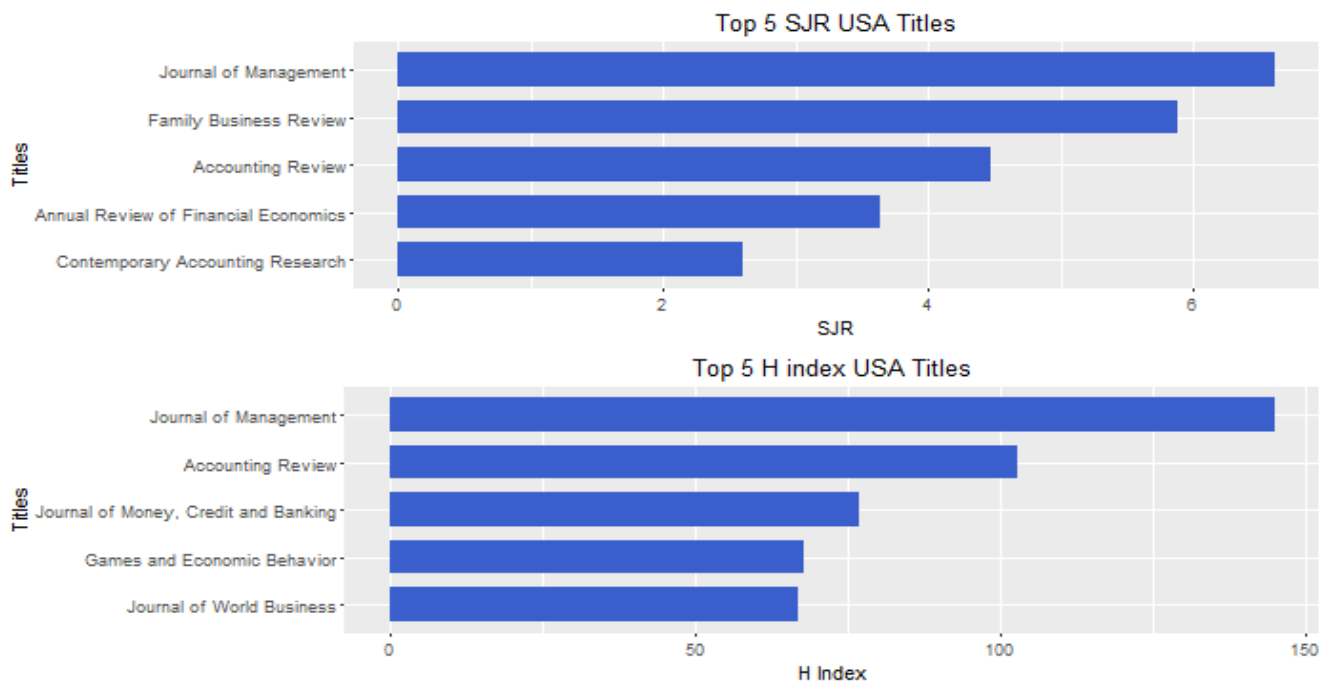


Figure 2.0.8 Top 5 USA Journals Sjr & H index

USA has only 2 same titles in the top five SJR and H index

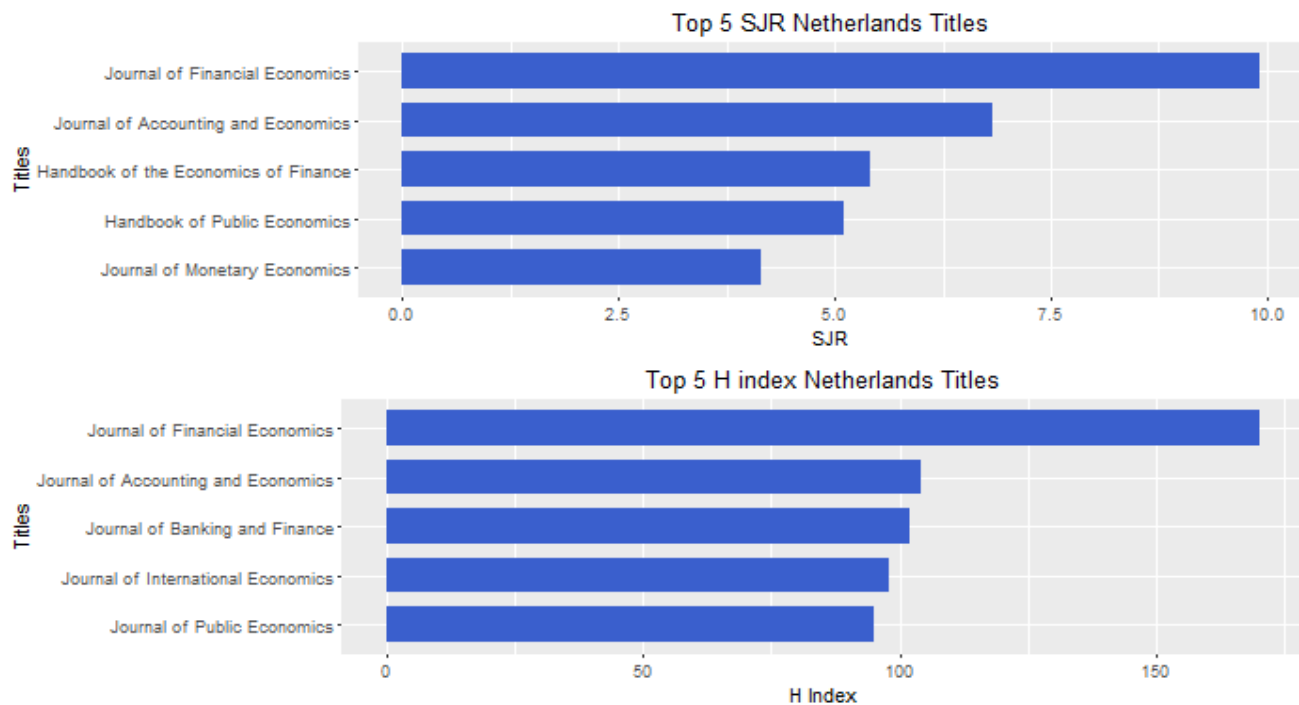


Figure 2.0.9 Top 5 Netherland Journals Sjr & H index

Netherlands, as USA, has only 2 same titles for the top SJR and H index.

2.10 Rest of Columns names

In this chapter we won't analyse the following columns because as we will explain in the next chapter we have made an detail documentation about the documents that were published in 2015.

Total Documents (2015)

"All types of documents are considered, including citable and non-citable documents."

Total Documents (3years)

"Published documents in the three previous years (2015 documents are excluded), i.e. when the year X is selected, then X-1, X-2 and X-3 published documents are retrieved. All types of documents are considered, including citable and non-citable documents."

Total References

"It includes all the bibliographical references in a journal in the selected period."

Total Cites (3years)

"Number of citations received in 2015 by a journal to the documents published in the three previous years, --i.e. citations received in year X to documents published in years X-1, X-2 and X-3. All types of documents are considered."

Citable Documents (3 years)

"Number of citable documents published by a journal in the three previous years (2015 documents are excluded). Exclusively articles, reviews and conference papers are considered."

Cites per Document (2 years)

"Average citations per document in a 2 year period. It is computed considering the number of citations received by a journal in 2015 to the documents published in the two previous years, --i.e. citations received in year X to documents published in years X-1 and X-2."

References per Document

"Average number of references per document in the selected year."

2.11 Comparison SCImago with ABS, CNRS and VHB

Apart from SCImago ranking list there are also other ranking lists. Some of them are ABS, CNRS and VHB. In our analysis team, where we examine finance journals, my student colleagues will analyse these lists. Each list has their own ranking indicator so the title rankings may be different. My aim here is to examine what percentage of our titles is in the other three lists.

2.11.1 ABS

First let's see how many titles SCImago and ABS have in common.

```
Count_abs
```

```
## # A tibble: 2 × 2
##   abs_common      n
##   <dbl> <int>
## 1         0   150
## 2         1    64
```

```
Total_Abs
```

```
## [1] 105
```

Table 3.11

Abs has 105 titles in total. As we can see from the table 64 are in common with SCImago.

2.11.2 CNRS

```
Count_cnrs
```

```
## # A tibble: 2 × 2
##   cnrs_common      n
##   <dbl> <int>
## 1         0   173
## 2         2    41
```

```
Total_Cnrs
```

```
## [1] 54
```

CNRS has 54 titles and 41 of them are also in SCImago

2.11.3 VHB

```
Count_vhb
```

```
## # A tibble: 2 × 2
##   vhb_common      n
##   <dbl> <int>
## 1         0   171
## 2         3    43
```

```
Total_Vhb
```

```
## [1] 64
```

In VHB there are 64 titles and 43 are in common with SCImago.

Now i present two graphs showing their relation.

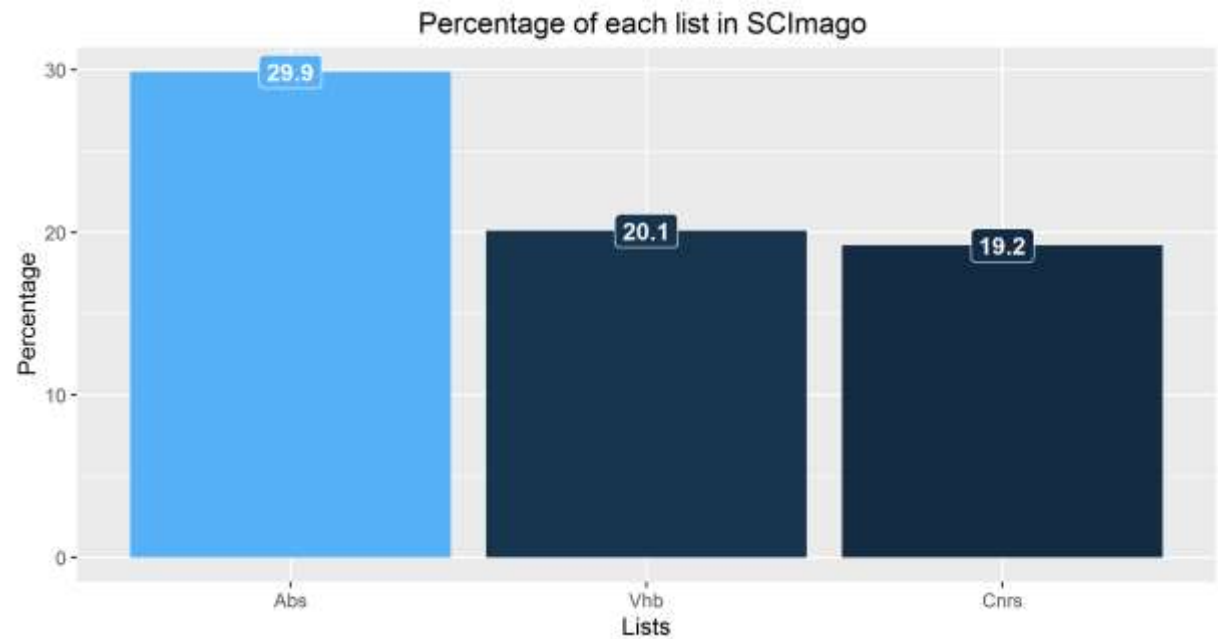


Figure 2.0.1 Percentage of each list in SCImago

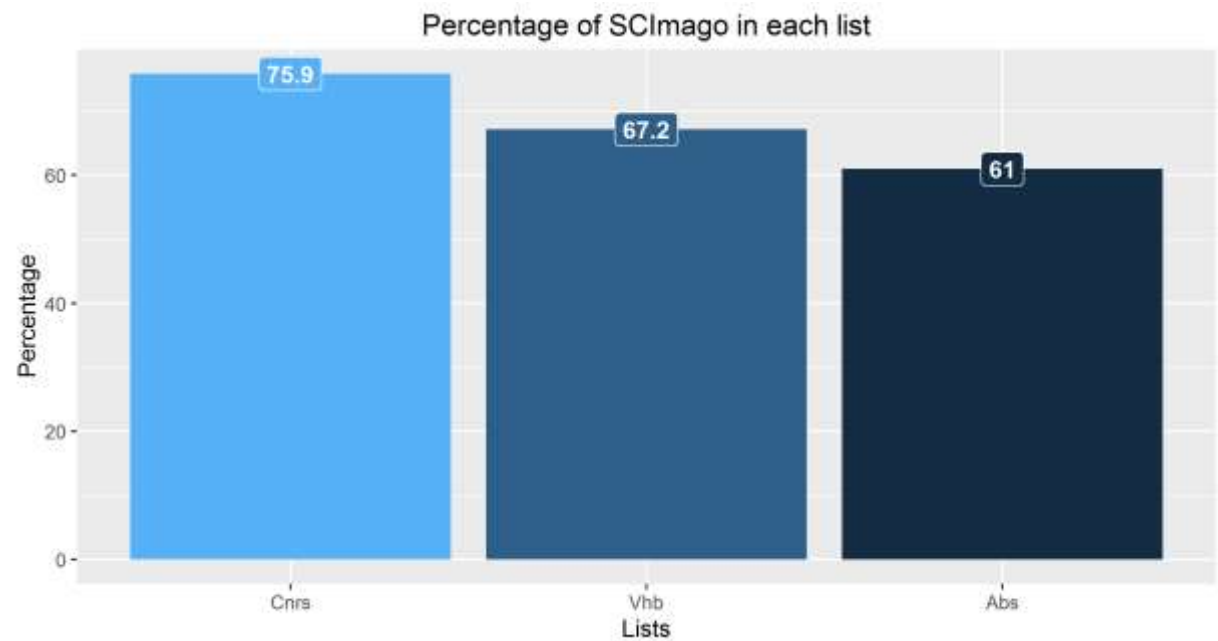


Figure 2.0.2 Percentage of SCImago in other lists

The first graph shows the percentage of each list in SCImago finance. Apparently ABS has the biggest proportion 29.9%. The second graph shows us the mirroring of the first graph, proportion of SCImago finance in each list. Here we have to notice that in each list the percentage is above 60%. 75.9% of CNRS titles are also in SCImago finance list.

So is SCImago a better list? We can't actually answer this but for sure we can say that SCImago finance contains much more observations, 2 times ABS, 3.96 times CNRS and 3.34 times VHB. Because in each list the percentage of SCImago is above 60% we can say that each list has a sample population of SCImago.

```
nrow(SCImago3)
```

```
## [1] 27
```

Also 27 titles are contained in all 4 ranking lists.

3 SCImajor Finance 2015 Editorial Boards

From our 214 titles we have removed the book series and conference & proceedings types, which leave us with 200 titles (journals). So actually we kept only the Journal type. We will proceed into a descriptive analysis to see the top Affiliations, counties, names and Journals

3.1 Data of editorial boards

Before the analysis starts, the edit that has been done in our data will be explained. The editorial boards weren't in a database in order to drag them and proceed into an analysis. Each editorial board was created during 2016. A team saved all the editorial boards links from each journals website in the end of 2015 in order to have the editorial boards of 2015. During 2016 we have downloaded from these links each editorial board and saved it into an excel file. From the 200 journals we have managed to find the editorial boards of the 192 journals. 5 Journals didn't have any articles publish in 2015 so we have removed them and from three journals we couldn't manage to find their editorial boards. After saving each editorial board we have made an edit such as Cabanac has made in his article *Shaping the Landscape of Research in Information Systems From the Perspective of Editorial Boards: A Scientometric Study of 77 Leading Journals*. Each excel has the following format Surname_Name, Affiliation, Country, Position, Tier, Affiliation 2, Country 2 and Journal.

3.2 Edit of editorial boards

Each name has been edited, first is the surname and secondly the name and in lowercase (ex. Campell R Harvey has transformed into harvey_campell_r) also any personal title has been removed (ex prof. or Dr .). Secondly in order to have the same affiliations we have kept only the name of the university each name is affiliated with, we have removed the department's name and city of the university. Also if the affiliation was a business school of a university we have kept only the university name as an affiliation (ex. MIT Sloan School of Management was documented as massachusetts_institute_of_technology). Also each name has a position such as editor, editor in chief, advisory board, editorial board, editorial member, co-editor and more. In order to avoid these we have created three tiers. Tier 1, Tier 2 and Tier 3. Tier 1 contains the head editors in a journal. Tier 2 has the people that under the head editors such as head of a department, co-editor, and associate editors. Tier 3 has the rest of the editorial board, usually is the editorial board members, editorial board and in some cases the associate editors. This separation has been made in each journal individually so maybe an associate editor is in tier 2 and in another journal is in tier 3, or an editor in one journal is in tier 1 and in another one is in tier 2, it depends on the position each name holds in each journal and not from the title of the given position, because each journal has it's individual position and they are not in common not. The only common position is the editor in chief (always in tier 1).

After creating each editorial board we have placed each file into a folder and created, with R, a file that has all the editorial boards.

Before the analysis was started the Affiliation, Surname_Name and Country columns were checked so the data that appeared more than once weren't different. For example the names stulz_r_m, stulz rene m, stulz_rené_m and stulz_rené is the same person so it was corrected to stulz_rené_m.

3.3 Descriptive Statistics of Editorial Boards

After all the editing I created some codes in R to manipulate the editorial boards. The analysis has been made in three levels Names, Affiliations and Countries. Before I start I want to say briefly that each row contains a name, the institution that this person is affiliated with, the affiliations country, the person's position in the editorial board, a secondary affiliation and country and finally the editorials board journal name that he belongs.

3.3.1 Names

```
nrow(EB)
```

```
## [1] 8336
```

```
nrow(Unique_Names)
```

```
## [1] 6652
```

There are 8336 names (not unique) from our editorial boards. From 192 journals 8336 people are in their editorial boards. The unique names are 6652. So 1684 are the entries that appear more than once and this happens because some people are in more than one editorial board or have multiple positions in the journal.

I show the first six people which are in more editorial boards.

```
head(Unique_Names)
```

```
## # A tibble: 6 × 2
##   Surname_Name      n
##   <chr> <int>
## 1 stulz_rené_m      11
## 2 harvey_campbell_r  10
## 3 karolyi_andrew_g   9
## 4 lien_donald_hsiang_da 9
## 5 cumming_douglas_j   8
## 6 merton_robert_c     8
```

From the table we can see the top names that are in more editorial boards with Stulz Rene being in 11 editorial boards. So there many people that are in more than one editorial board and the next table will show this.

```
More_t_1<- Unique_Names %>% filter(n>1) %>% rename(Editorials = n)
```

```
nrow(More_t_1)
```

```
## [1] 1082
```

```
Total_Mt1<- More_t_1 %>% count(Editorials) %>% arrange(-Editorials)
```

```
Total_Mt1
```

```
## # A tibble: 10 × 2
##   Editorials      n
##   <int> <int>
## 1      11      1
## 2      10      1
```

## 3	9	1
## 4	8	4
## 5	7	3
## 6	6	12
## 7	5	35
## 8	4	76
## 9	3	234
## 10	2	715

1082 people are in more than 1 editorial board and from the following chart we can see their allocation.

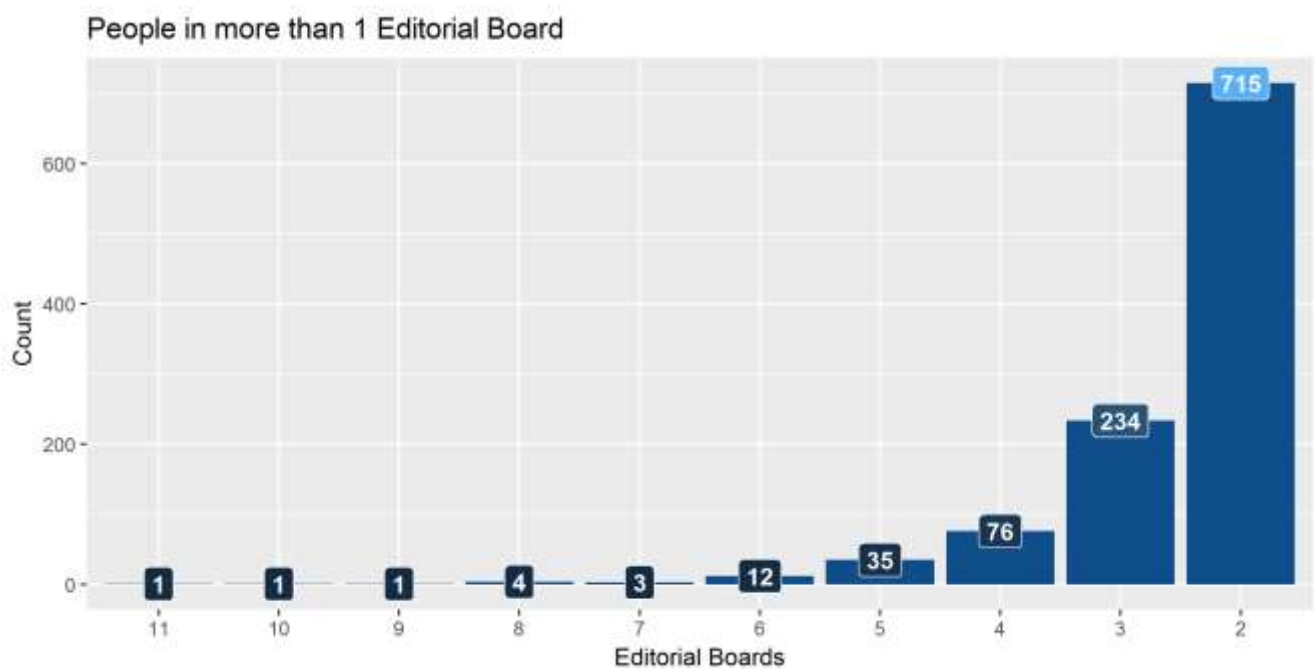


Figure 3.0.1 People with more than 1 seat

So from 6652 unique names 5570 are in one editorial board. 715 in 2, 234 in 3, 76 in 4, 35 in 5. Next follows a graph with the names that are in more than 5 editorial boards.

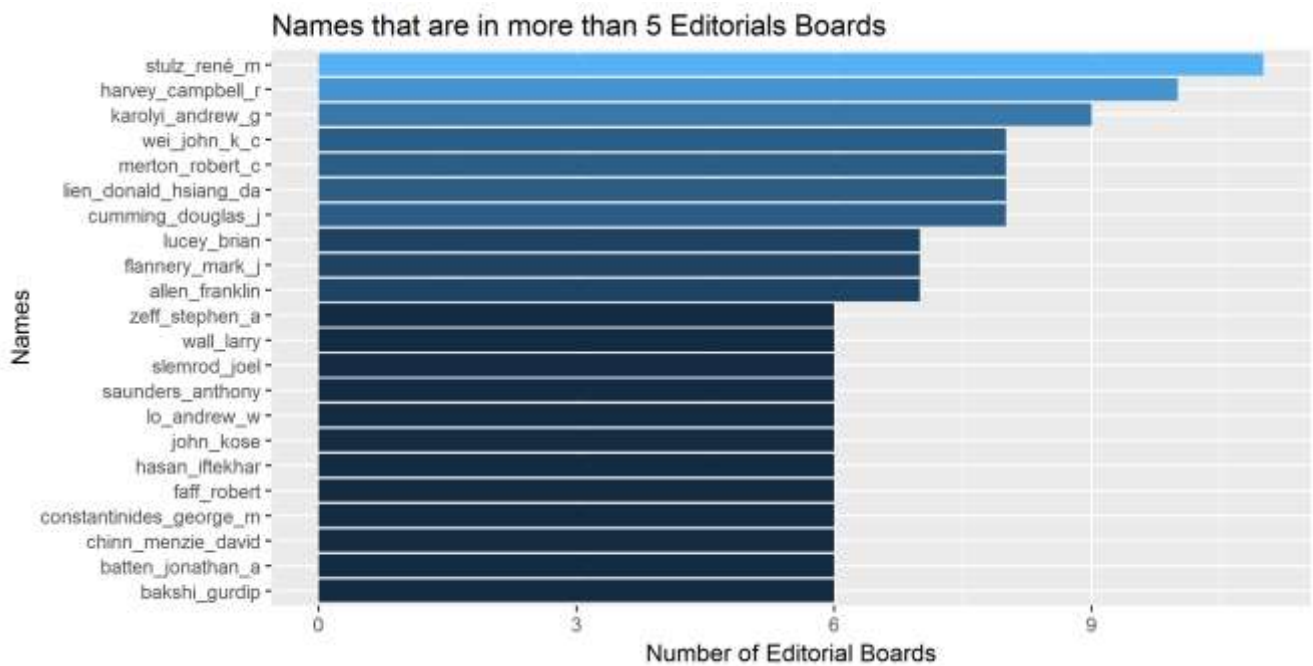


Figure 3.0.2 Names in more than 5 editorial boards

Stulz Rene M and Harvey Campbell R hold the first two places being in 11 and 10 editorials respectively. Merton Robert C (known from his pioneering contribution in the Black and Scholes formula) is in 8 different editorial boards.

3.3.2 Tiers

Each position has being given a tier 1, 2 or 3 as it is described at the beginning of the chapter , here I have to say that in some positions there isn't any tier (the tier is NA (Not Available)) these positions are former editor, managing editor, founding editor, publisher and if their affiliation is not an university or institution.

Tiers

```
## # A tibble: 4 × 3
##   Tier      n Percent
##   <int> <int>   <dbl>
## 1     1   486    5.92
## 2     2  2508   30.54
## 3     3  5218   63.54
## 4    NA   124    1.51
```

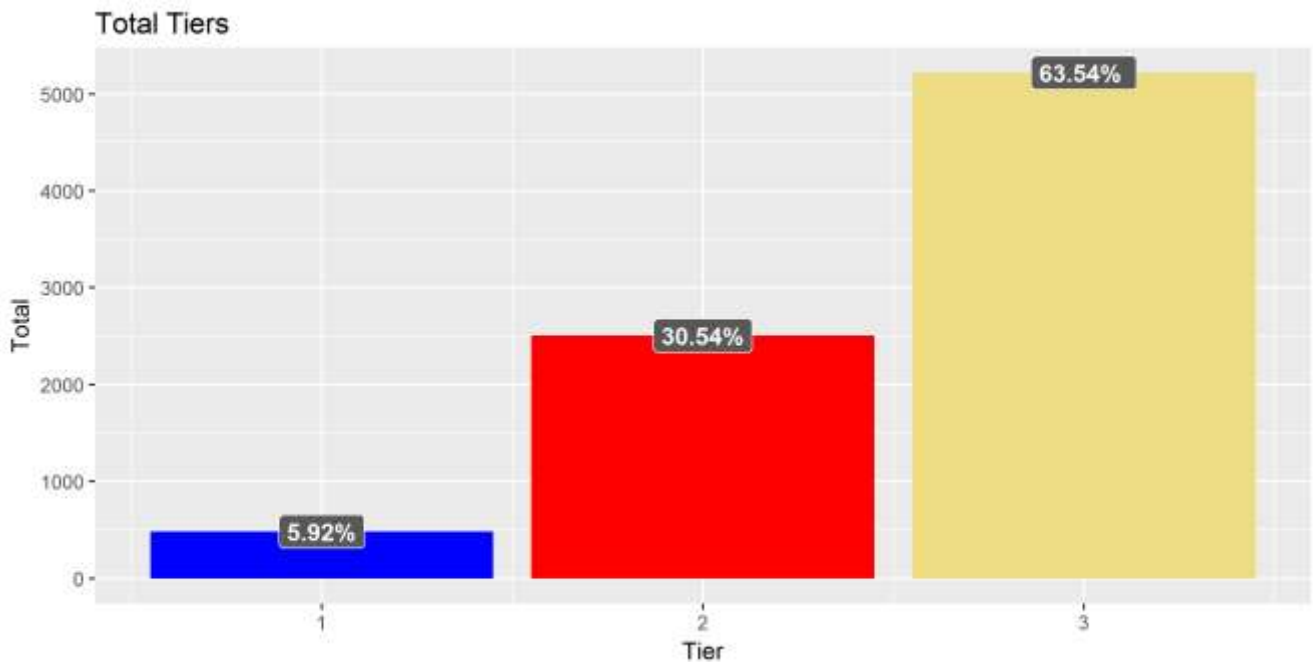


Figure 3.0.3 Tiers

63.54% is in Tier 3 , 30.54% is in Tier 2 and 5.92% in Tier 1. Also from the table we can see that 124 names don't belong in any tier as I explained further up. In the column Tier, their value is set as NA and this is the reason the NA is to the left of 124.

3.3.3 Affiliations

Affiliation is the institution each names is affiliated with. If a person is a professor in a department of economics in Durham University, the affiliation will be Durham University. If a person works for the IMF the affiliation will be the IMF.

```
nrow(Total_Affiliation)
```

```
## [1] 1722
```

From 8336 names we have 1722 affiliations where they are affiliated with. We created a graph to see the top 15 affiliations.

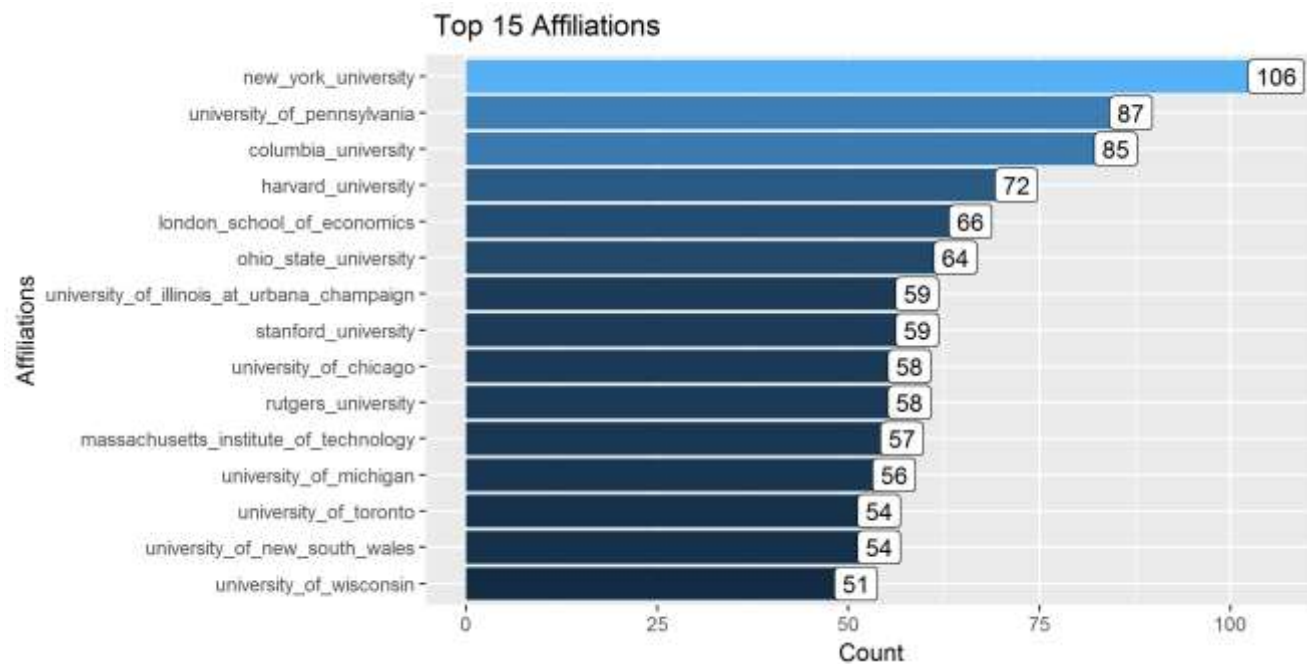


Figure 3.0.4 Top 15 Affiliations

Here we count how many names are affiliated with this University or Institution, New York University, by far, has the most names. This tells us that New York University has 106 people, not unique, that have a position in the 192 editorial boards. We didn't want the unique names because in each editorial board the position that is hold by a name is unique so if a person is in multiple editorial boards it still counts for the affiliations. To further our analysis we added the 3 tiers. Each tier shows us the percentage of the affiliation.

```
Aff<- Aff %>% filter(!is.na(Affiliation))%>%arrange(-Total)
head(Aff)
```

##	Affiliation	Total	Tier1	Tier2	Tier3
## 1	new_york_university	106	4.72	34.91	58.49
## 2	university_of_pennsylvania	87	16.09	45.98	37.93
## 3	columbia_university	85	3.53	49.41	47.06
## 4	harvard_university	72	4.17	45.83	48.61
## 5	london_school_of_economics	66	12.12	39.39	46.97
## 6	ohio_state_university	64	6.25	40.62	53.12

So for example New York University has 106 affiliations that are distributed in the 3 tiers as follows 4.72% in Tier 1, 34.91% in Tier 2 and 58.49% in Tier 3. Before I show some percentages graphs I will demonstrate the top 10 affiliation tiers.

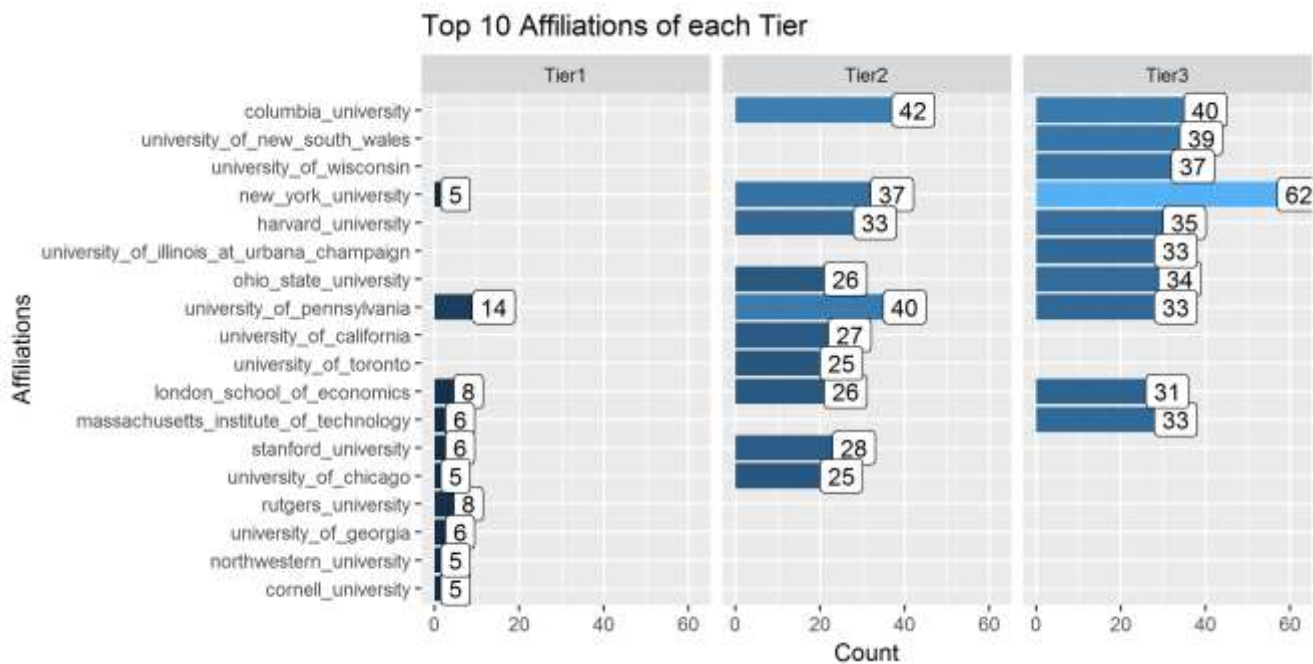


Figure 3.0.5 Top 10 Affiliations of each tier

This chart illustrates the top 10 affiliations with the greatest tiers in each tier. I present them all together so we can see that an affiliation is not always in the three tiers. For example University of California belongs to the top 10 affiliations in tier 2 but is neither in tier 1 nor in tier 3. From here we extract that University of Pennsylvania has the most people in tier 1. In tier 2 Columbia University is at the first place and in tier 3 New York University has the most people, 62. Although Harvard University is the fourth University with the most affiliations it doesn't have any affiliations in tier 1 and that is surprising.

The graph shows the 15 highest affiliations percentages of tier 1 and in the next three graphs show us the percentages of the top 15 affiliations in each tier. Also, for tier 1, I created a table to understand the difference of affiliations percentages of tier 1 (first graph) and affiliation percentage in tier 1(second graph).

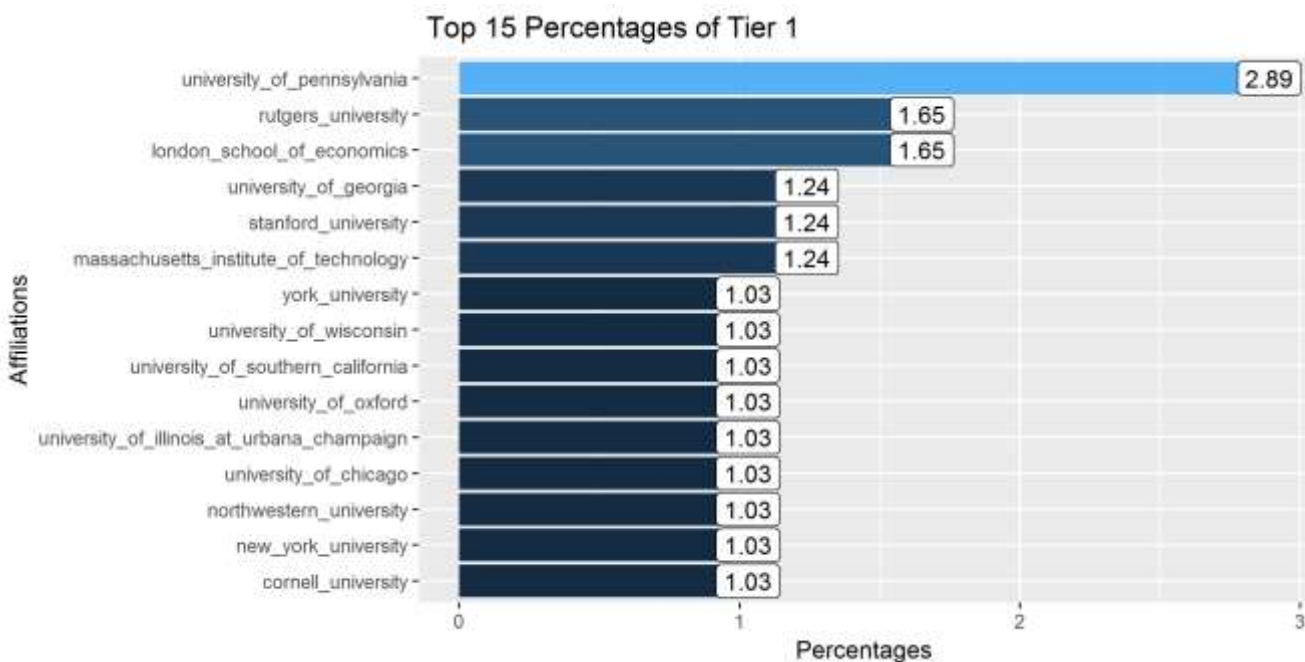


Figure 3.0.6 Top 15 Percentages of Tier 1

University of Pennsylvania holds the first position in tier 1 with a big difference from Rutgers University and LSE where they hold the 2nd and 3rd position respectively.

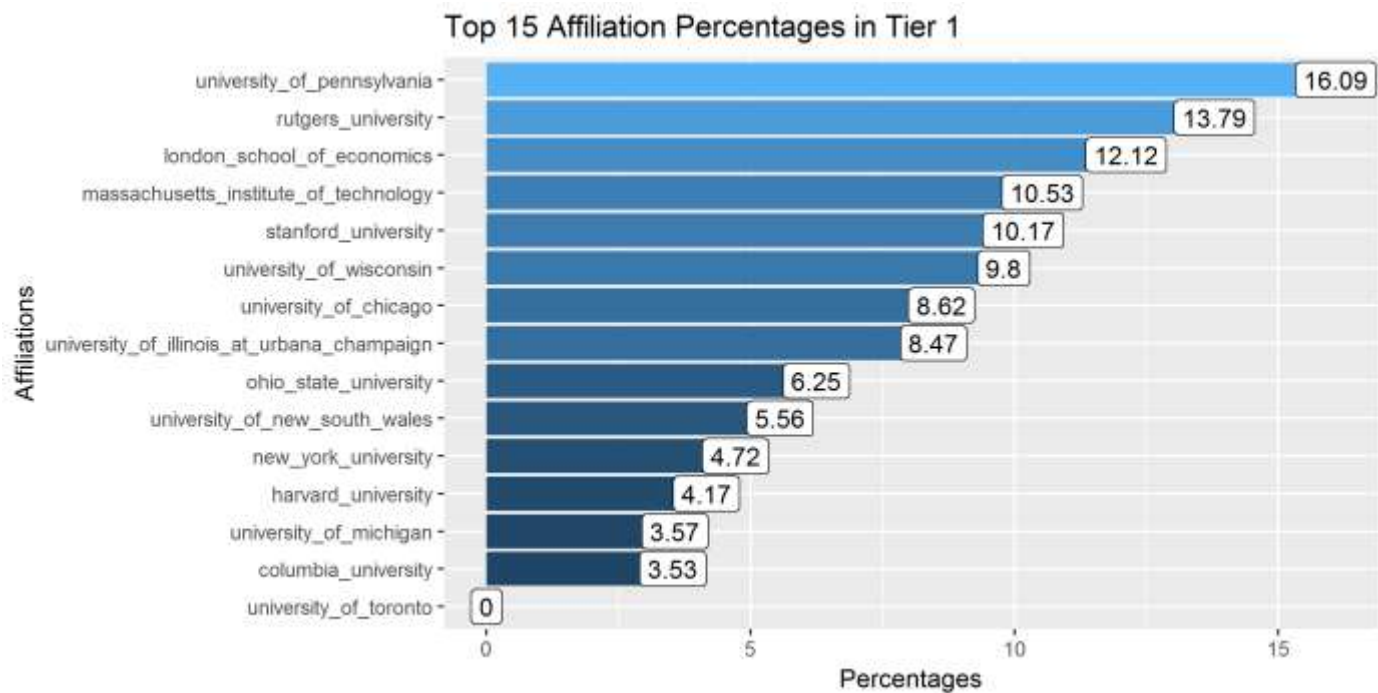


Figure 3.0.7 Top 15 Percentages in Tier 1

Of the top 15 Affiliations University of Pennsylvania has the biggest percentage in tier 1 16.09% and then follows Rutgers and LSE. We see that from the top 15 Affiliations, University of Toronto doesn't have any affiliation in Tier 1.

	Affiliation	Total	Tier1%	Affiliation	Total	Tier1	Tier2	Tier3
1	university_of_pennsylvania	87	16.09	new_york_university	106	4.72	34.91	58.49
2	rutgers_university	58	13.79	university_of_pennsylvania	87	16.09	45.98	37.93
3	london_school_of_economics	66	12.12	columbia_university	85	3.53	49.41	47.06
4	massachusetts_institute_of_technology	57	10.53	harvard_university	72	4.17	45.83	48.61
5	stanford_university	59	10.17	london_school_of_economics	66	12.12	39.39	46.97
6	university_of_wisconsin	51	9.80	ohio_state_university	64	6.25	40.62	53.12
7	university_of_chicago	58	8.62	stanford_university	59	10.17	47.46	42.37
8	university_of_illinois_at_urbana_champaign	59	8.47	university_of_illinois_at_urbana_champaign	59	8.47	33.90	55.93
9	ohio_state_university	64	6.25	rutgers_university	58	13.79	34.48	51.72
10	university_of_new_south_wales	54	5.56	university_of_chicago	58	8.62	43.10	48.28
11	new_york_university	106	4.72	massachusetts_institute_of_technology	57	10.53	31.58	57.89
12	harvard_university	72	4.17	university_of_michigan	56	3.57	42.86	53.57
13	university_of_michigan	56	3.57	university_of_new_south_wales	54	5.56	22.22	72.22
14	columbia_university	85	3.53	university_of_toronto	54	0.00	46.30	51.85
15	university_of_toronto	54	0.00	university_of_wisconsin	51	9.80	15.69	72.55

Table 1

The reason of table 1 is to see that the top affiliations don't hold the highest percentage in tier 1.

Top 15 Affiliation's Percentages in Tier 2

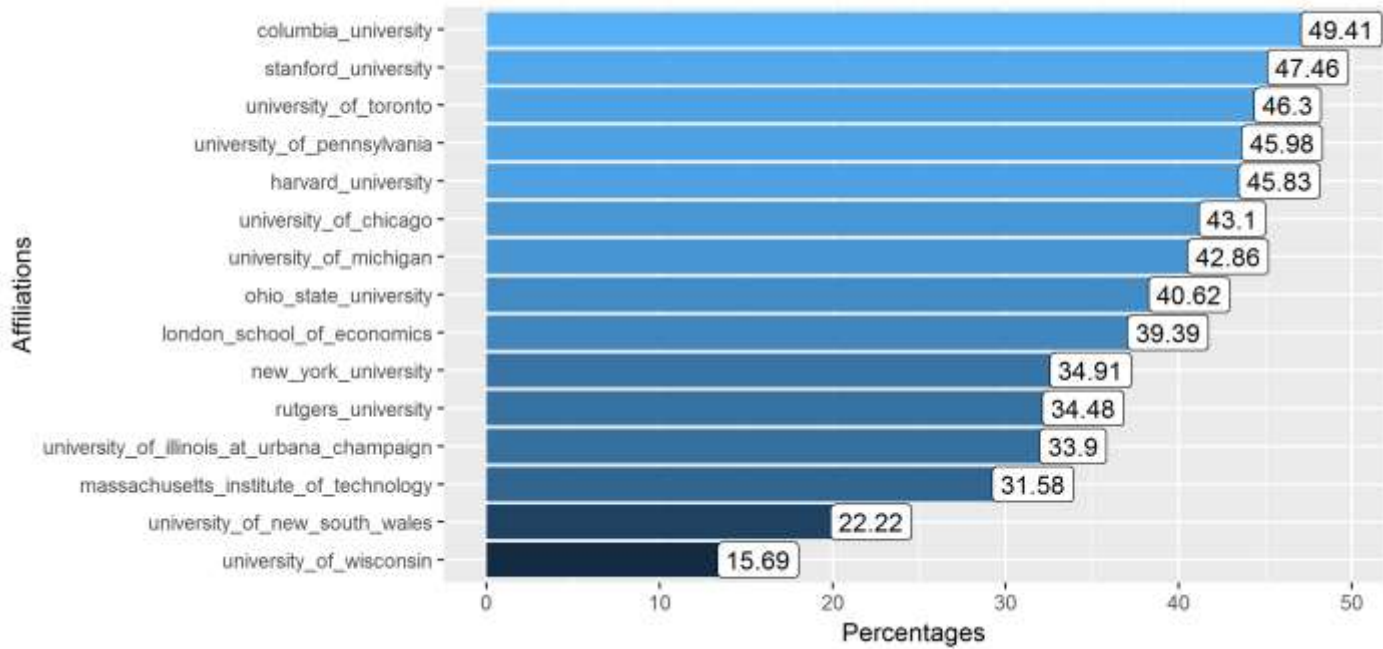


Figure 3.0.8 Top 15 Percentages in Tier 2

As we move to tier 2 we see that all the percentages have increased and also the ranking.

Top 15 Affiliation's Percentages in Tier 3

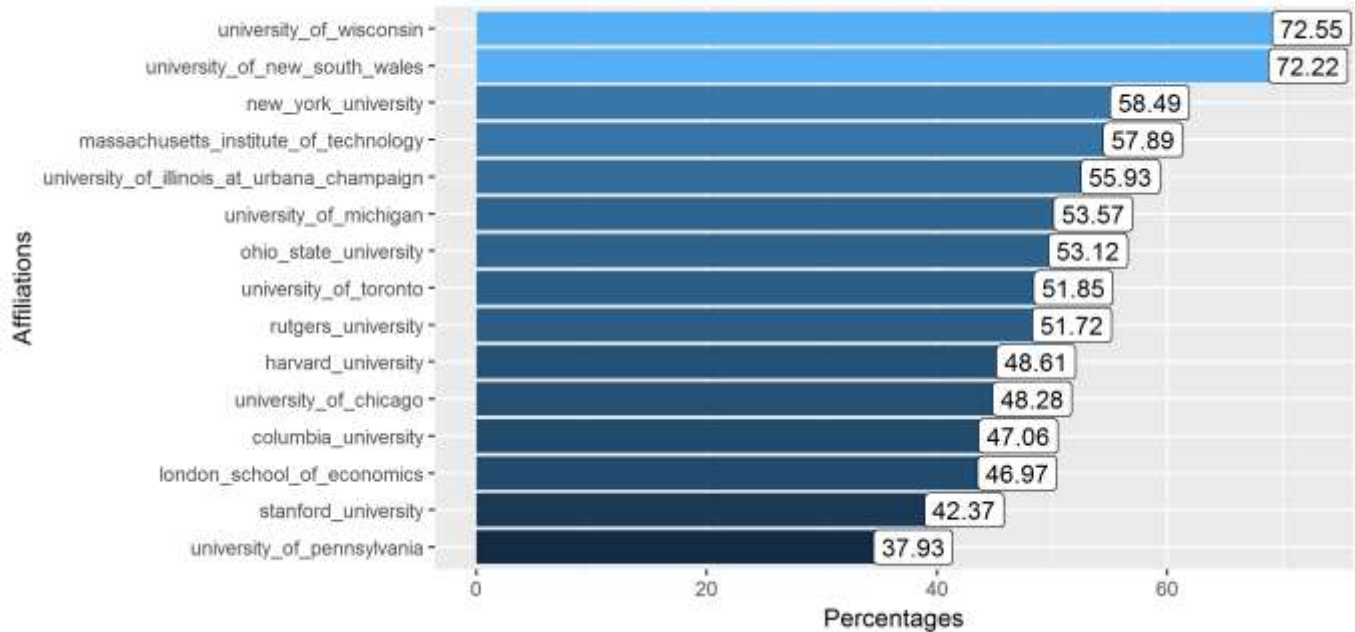


Figure 3.0.9 Top 15 Percentages in Tier 3

In our last tier, tier 3, University of wiscosin has the lead with 72.55%. Harvard is 10th and University of Pennsylvania is 15th. These percentages are for the top 15 Affiliations. Now I will present a table that contains the 36 highest percentages in tier 1 overall so we can understand the difference between the graphs.

	Affiliation	Total	Tier 1 %
1	university_of_science_universiti_sains_malaysia	3	100.00
2	banco_central_de_chile	2	100.00
3	ournemouth_university	2	100.00
4	accademia_nazionale_dei_lincei	1	100.00
5	airef_independent_authority_for_fiscal_responsibility_spanish	1	100.00
6	city_college	1	100.00
7	colgate_university_hamilton	1	100.00
8	core_consult	1	100.00
9	council_on_foreign_relations	1	100.00
10	director_facom_consulting	1	100.00
11	eindhoven_university_of_technology_technische_universiteit_eindhoven	1	100.00
12	europa_asia_business_school	1	100.00
13	founding_editor_emeritus	1	100.00
14	green_state_university	1	100.00
15	head_of_retirement_income_research_challenger_limited	1	100.00
16	institut_universitaire_de_france	1	100.00
17	international_institute_of_business_technologies	1	100.00
18	jeffries_technology_solutions	1	100.00
19	ll_m_new_york	1	100.00
20	luxembourg_school_of_finance	1	100.00
21	managing_principal_brunel_associates_llc	1	100.00
22	meyerowitz_communications_inc	1	100.00
23	national_american_university	1	100.00
24	new_mexico_state_university	1	100.00
25	reserve_bank_of_india	1	100.00
26	scor_global_life_se_köln	1	100.00
27	smith_breeden_associates_inc	1	100.00
28	south_easter_louisiana_university	1	100.00
29	st_john_s_college	1	100.00
30	the_college_of_new_jersey	1	100.00
31	towers_watson	1	100.00
32	university_of_madrid	1	100.00
33	verulam_buildings_gray_s_inn_london	1	100.00
34	indira_gandhi_institute_for_development_research	4	75.00
35	williams_college	4	75.00
36	ukrainian_academy_of_banking_of_the_national_bank_of_ukraine	3	66.67

Table 2 36 Highest Percentages in Tier 1

So from the table above, which shows us the top 36 affiliation with the highest percentage in tier 1 overall, 30 affiliations have only 1 person in some of the 192 editorial boards but that person holds the position of an editor (tier 1) in the journal.

3.3.4 Country

Country column contains the affiliation's country. For example `hec_paris` has France as country, because HEC Paris is located in Paris. So as I said in the begging the country corresponds at a person that belongs in an editorial board. Here we want to see which country has the most people and how they are allocated in each tier.

```
nrow(Total_Countries)
```

```
## [1] 85
```

In total we have 85 counties, so 6652 people are affiliated with 85 countries only. The next table show us the top 15 Countries with most affiliations and how they are allocated in each Tier.

Country	Total	Tier1	Tier2	Tier3
usa	4028	6.21	31.55	61.44
uk_england	707	7.64	28.01	63.51
australia	440	4.55	26.82	68.64
canada	406	3.94	27.83	67.24
france	279	5.02	35.84	58.42
germany	220	4.55	40.45	54.55
spain	177	9.04	26.55	63.84
switzerland	149	8.72	30.2	60.4
netherlands	146	4.11	32.19	61.64
italy	133	5.26	33.08	60.15
hong_kong	120	5	24.17	70
japan	116	3.45	42.24	54.31
china	111	0.9	24.32	74.77
singapore	92	4.35	30.43	65.22
new_zealand	73	2.74	26.03	71.23

Table 3 Top 15 Countries seats and Tiers percentages

For a better understanding we will present a graph with their percentages.

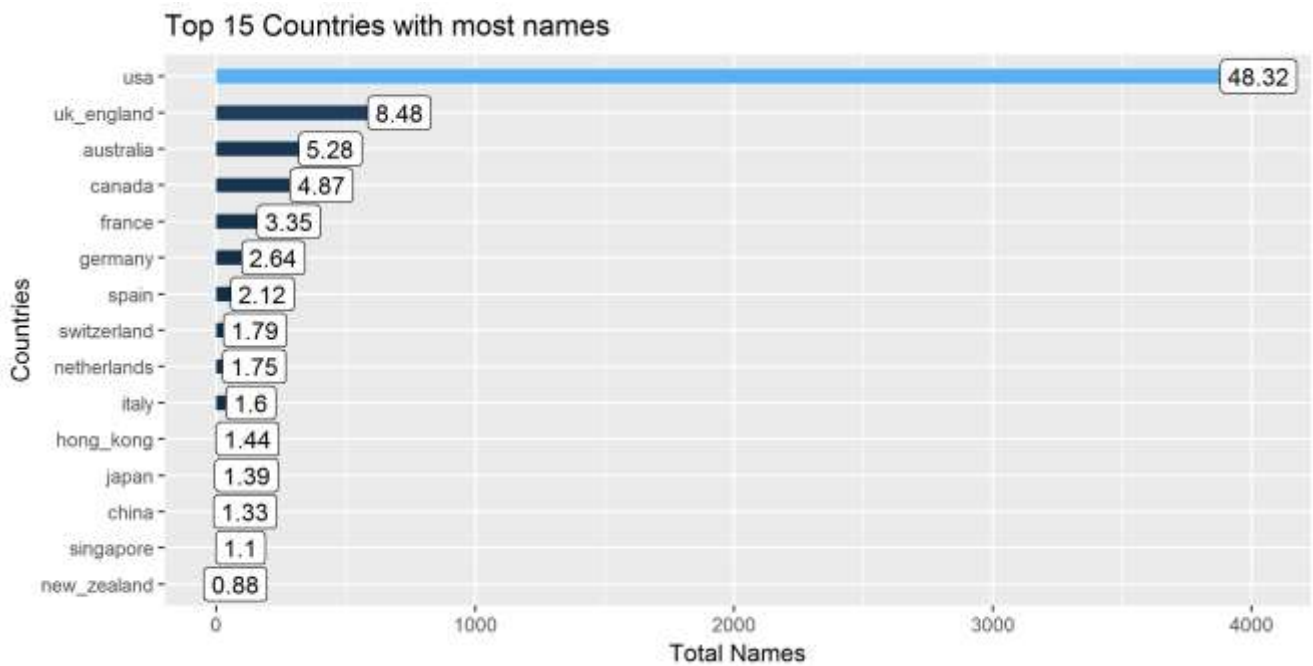


Figure 3.0.10 Top 15 Countries percentages seats

The majority of our people in the editorial boards we are analysing are clearly from the USA. 48.32% of our names are affiliated with a USA institution. I think here we can say our first assumption that USA articles maybe more privileged. 40.84% is gap between the leading country, the USA, and the second country, England. United Kingdom has been separated into England, Scotland, Wales and Northern Ireland and it's shown in the following graph. Apart from this big difference we can see how dramatically the percentages are dropping in the top 15 countries. The 15th country, New Zealand doesn't even reach 0.9% of our total names.

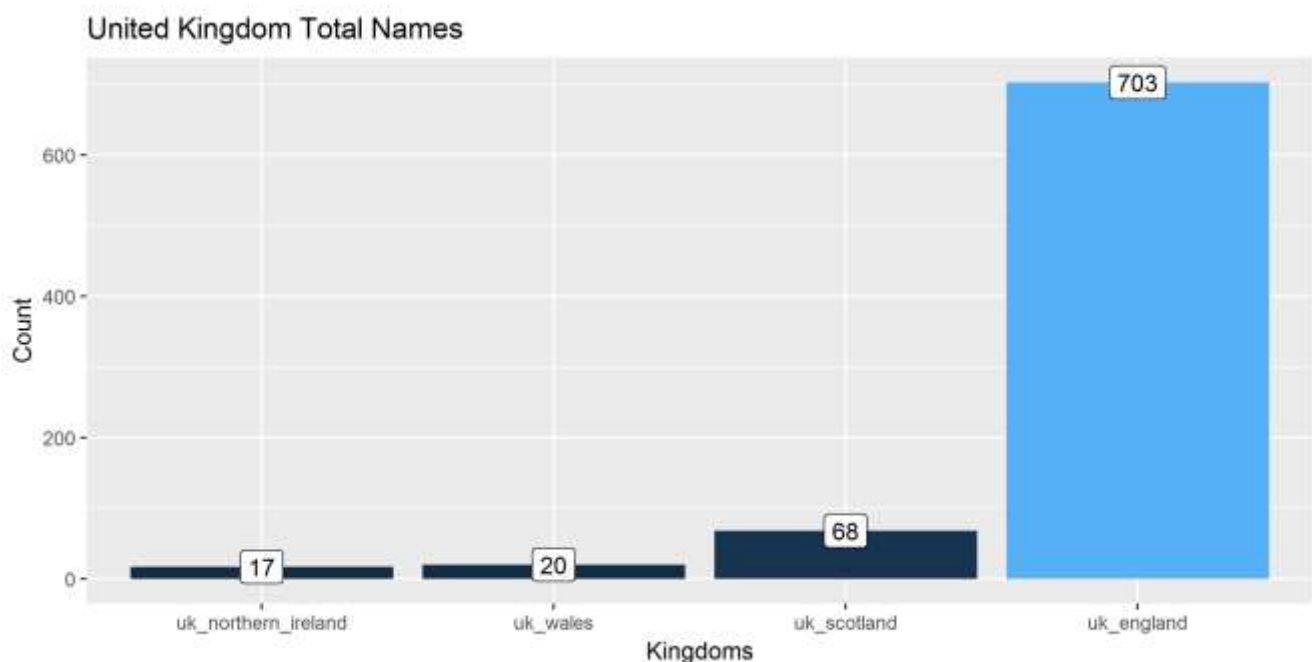


Figure 3.0.11 Uk seats

Next follows a graph that shows us the allocation of the top 10 counties of each tier.

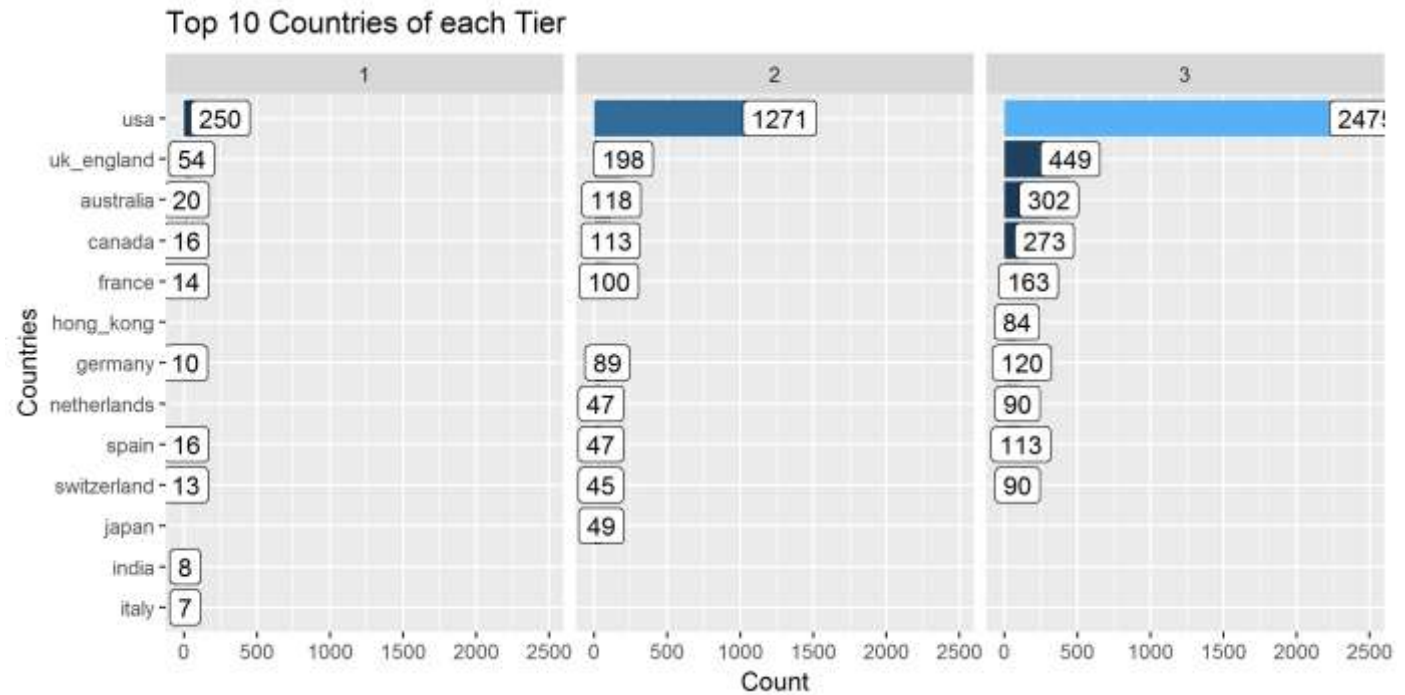


Figure 3.0.12 Top 10 countries of each tier

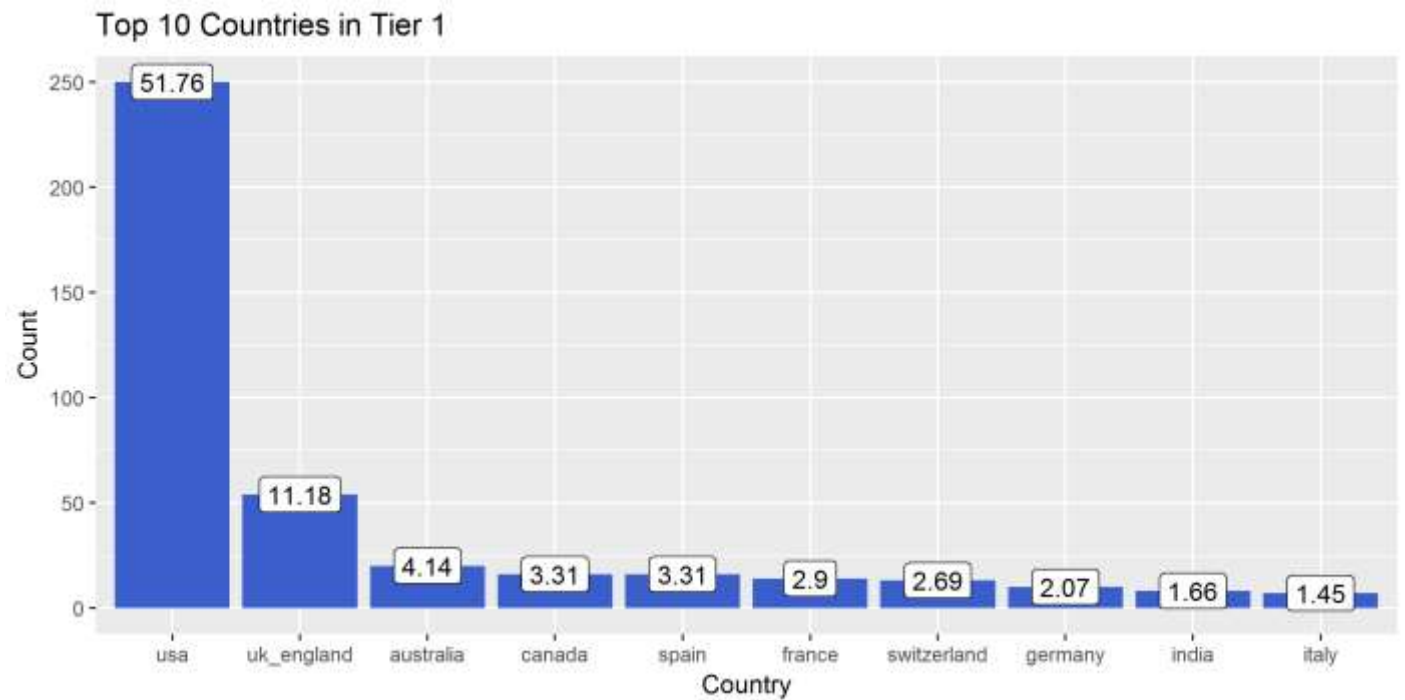


Figure 3.0.13 Top 10 Counties percentages in Tier 1

As we expected the USA holds the first position in each tier. According to the previous results this is not surprising but it is surprising that 51.76 % of tier 1 positions are from the USA, above the half names. In other words 51.76 % of the editors in chief are from the USA. Here is our second assumption that as the USA has the

head position in most of our journals they have the ability to control the articles that are published and we will see this in the following graph.

```
nrow(Journals1)
```

```
## [1] 115
```

```
nrow(Journals1)
```

```
##      ID      Journal      n
##  <int>      <fctr> <int>
##  1      1 journal_of_finance      2
##  2      2 review_of_financial_studies      7
##  3      3 journal_of_financial_economics      2
##  4      4 journal_of_accounting_and_economics      8
##  5      5 journal_of_management      1
##  6      6 family_business_review      1
```

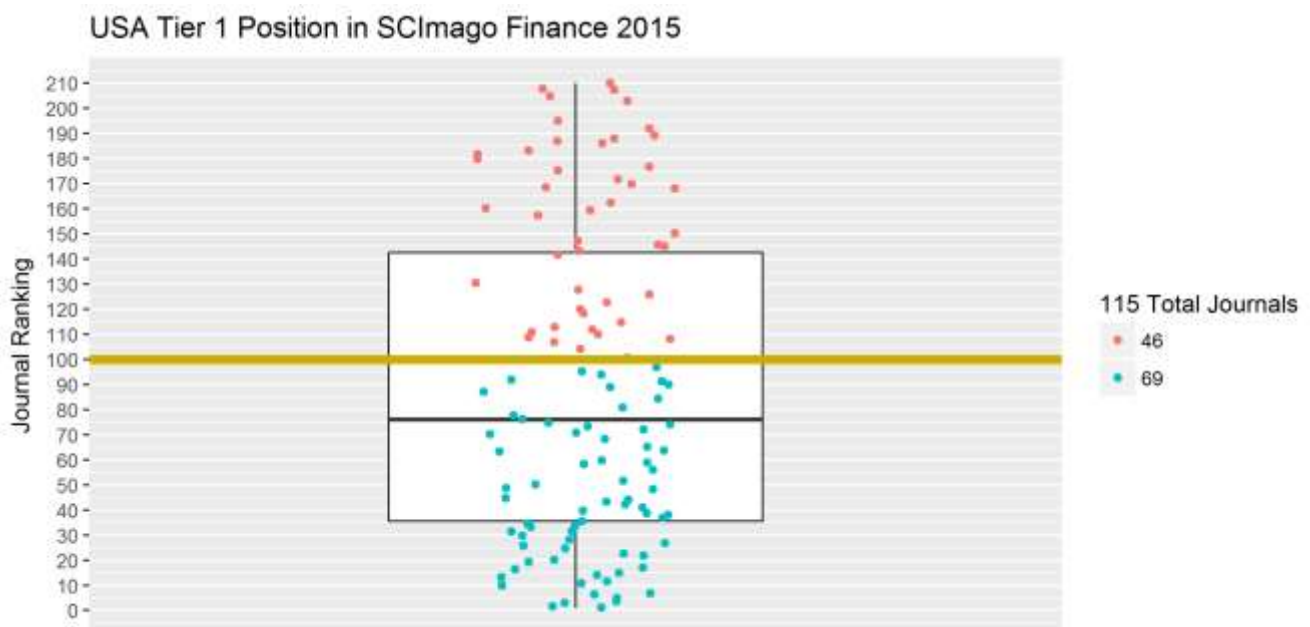


Figure 3.0.14 USA tier 1 seats

So the USA holds 51.76% of tier 1 positions that corresponds to 115 journals from our list SCImago Finance 2015 and finally apart from the aforementioned, these tiers 1 correspond to the top journals. From the 115 journals 69 are at the top 100 and the rest 46 are in the other half, as we can see it also from the boxplot graph.

3.4 Journal's Analysis

Next follows the tier analysis of each Journal. First I present the table with all the journals showing their tier percentages and next for each journal there will be three tables. The 1st table Tier Allocation & Explanation shows us how many people are in tier 1, 2, 3 or NA and how we have adjusted their position. The way each person has been placed in tier 1, 2 or 3 is explained in the following section. In the 2nd table Country can see which country has the highest percentage in each tier and in the 3rd table which Affiliation has the highest percentage. The way we present the Journals is according to their SCImago Finance 2015 Rank.

3.4.1 Tier and Position Explanation

General

Position	Adjusted Position	Tier
Editor in Chief		
Editor		
Co-Editor	Editor	1
Executive Editor		
Associate Editor		
Executive board	Associate Editor	2
Cnrc Editor		
senior_associate_editor		
associate_editor_team		
consulting_editor		
steering_committee		
Advisory Editor		
Policy watch editor	Advisory Editor	2
Specific Positions		
Editorial Board		

Editorial Board member	Editorial Board	3
Advisory Board		
Managing Editor		
Manuscript		
Book review		
Editor's Assistant		
Editorial Assistant	Editorial Assistant	3
Secretary		
Publisher		
Production editor		
Editorial office		
Content editor		

For the Editorial Assistant adjusted position will be in a tier if only the person is affiliated with an University, Company or Institution. Otherwise we fill with NA.

Special Occasions

Some journals have a different type of presenting the positions, for example in some journals the editor in chief is the managing editor. So it's on our hand how to adjust some positions and for each journal individually, we can't have a specific pattern for all journals but a pattern to apply in each journal.

Position	Adjusted Position	Tier
Managing Editor	Editor	1
Executive editorial board		
Co- Editor		
Editor	Associate Editor	2
Advisory Board		
Executive Editor		
Advisory Editor	Advisory Editor	3

The Advisory Editor is in Tier 2 but in some occasion when we have also associate editors the go in Tier 3. The thought behind this is that the advisory editor is called when an advice is needed in a topic so when the associate editor is in an editorial board he has a higher position so he will be in Tier 2 and the Advisory Editor in Tier 3. But in another occasion when we have an editorial board with Editorial Board members, Associate Editors , Editors and Advisory Editor we can see that they can't be in Tier 3 as they are ranked above the editorial Board members because they are expert in a topic.

3.4.2 Journal's Percentages in each Tier

3.4.2.1 Journal's Editorial Board Size

First we present a bar-plot that shows us how the editorial boards are distributed in SCImago Finance 2015.

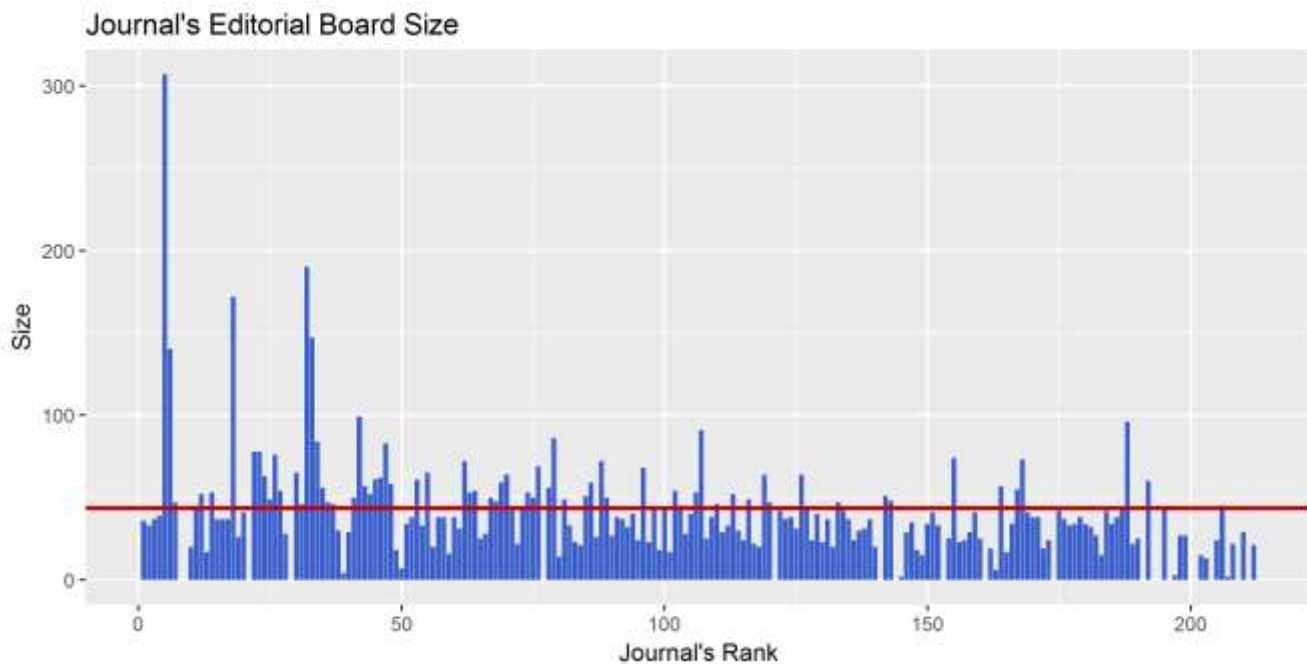


Figure 3.0.1 Journals editorial board sizes

```
summary(Data$Editors)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	2.00	26.00	38.00	43.42	51.25	307.00

Our minimum boards contain only two people (*Financial Markets Institutions and Instruments*, *ATA Journal of Legal Tax Research*) and our maximum board has 307 people (*Journal of Management*). The red line shows us the average size of our editorial boards which is 44 people. Next follows two boxplots graphs which are in separated in SJR and H index quartiles as is the previous chapter. We want to examine if the board size follows the SJR prestige and the H index indicator.

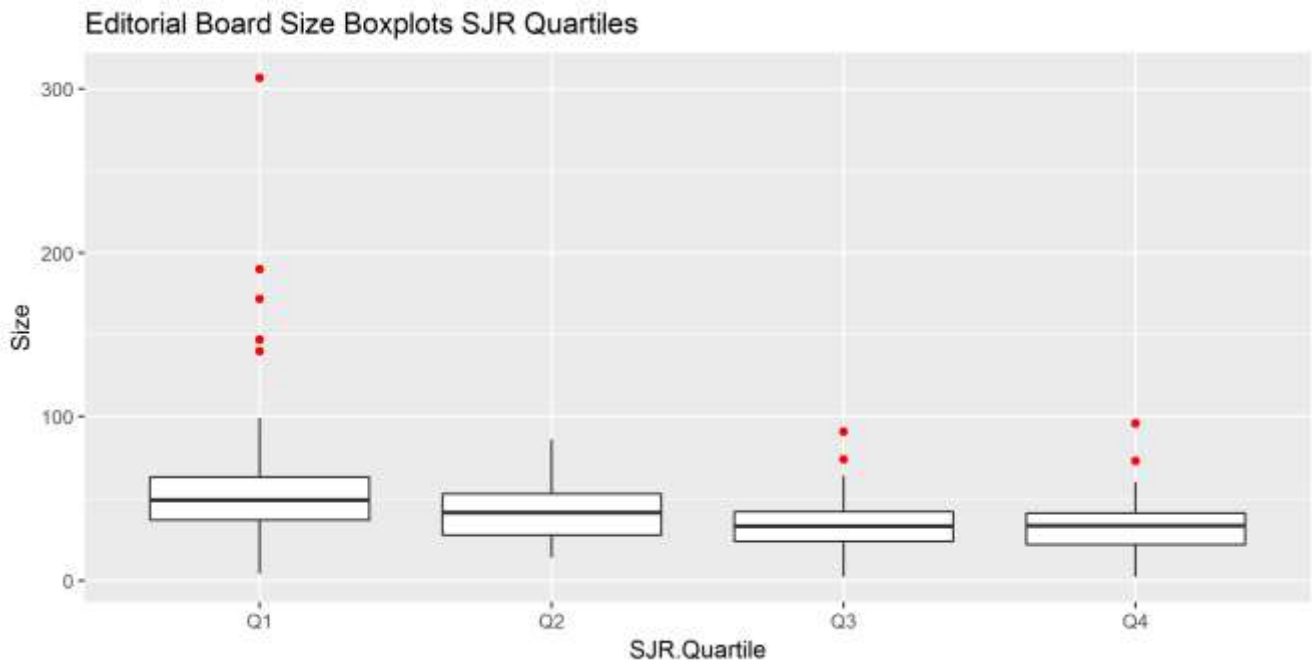


Figure 3.0.2 Editorial size boxplots Sjr Quartiles

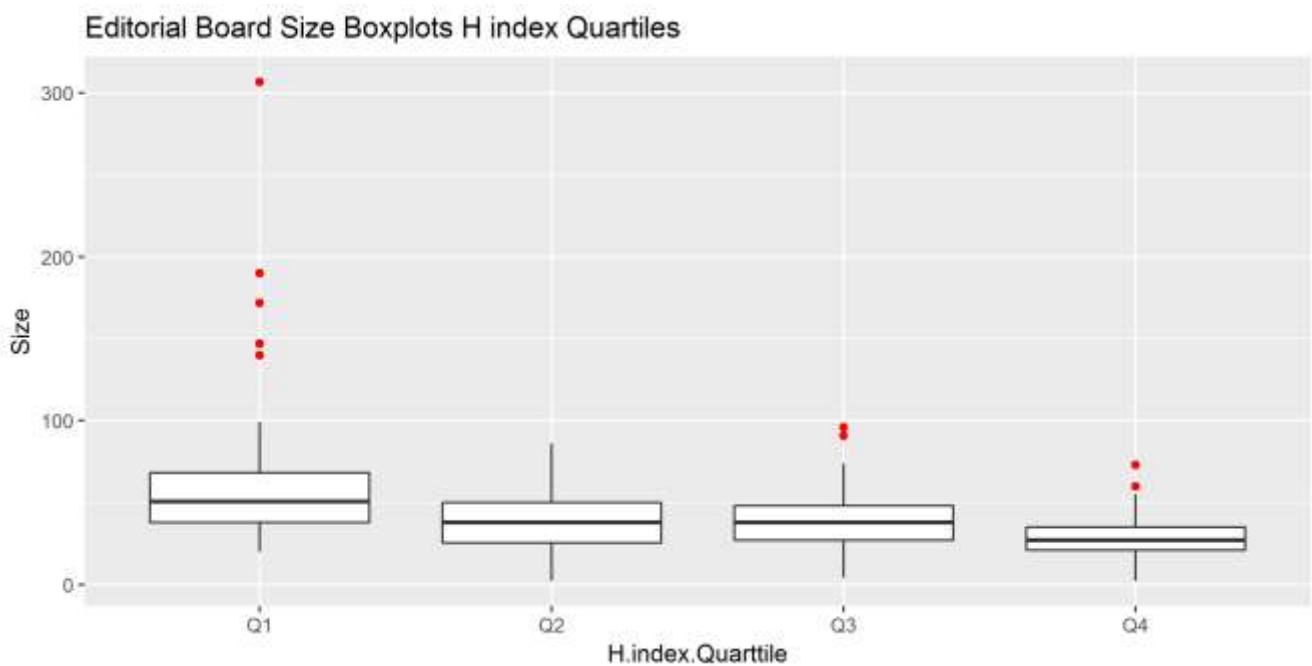


Figure 3.0.3 Editorial size boxplots h index Quartiles

Apart from our outliers which pretty much match we see that in either in SJR or H index quartiles the allocation is the same and also follow the rank of the indicators. In Q1 we have a higher sum of people than in Q2 and Q2 is higher than the sum of Q3 and Q3 higher than Q4, but the differences are slightly in Q2, Q3 and Q4. To get a closer view I created a SJR-Editorial board size ratio line graph. So I divided the journal's SJR with the journal's board size to see if we have any extraordinary journal.

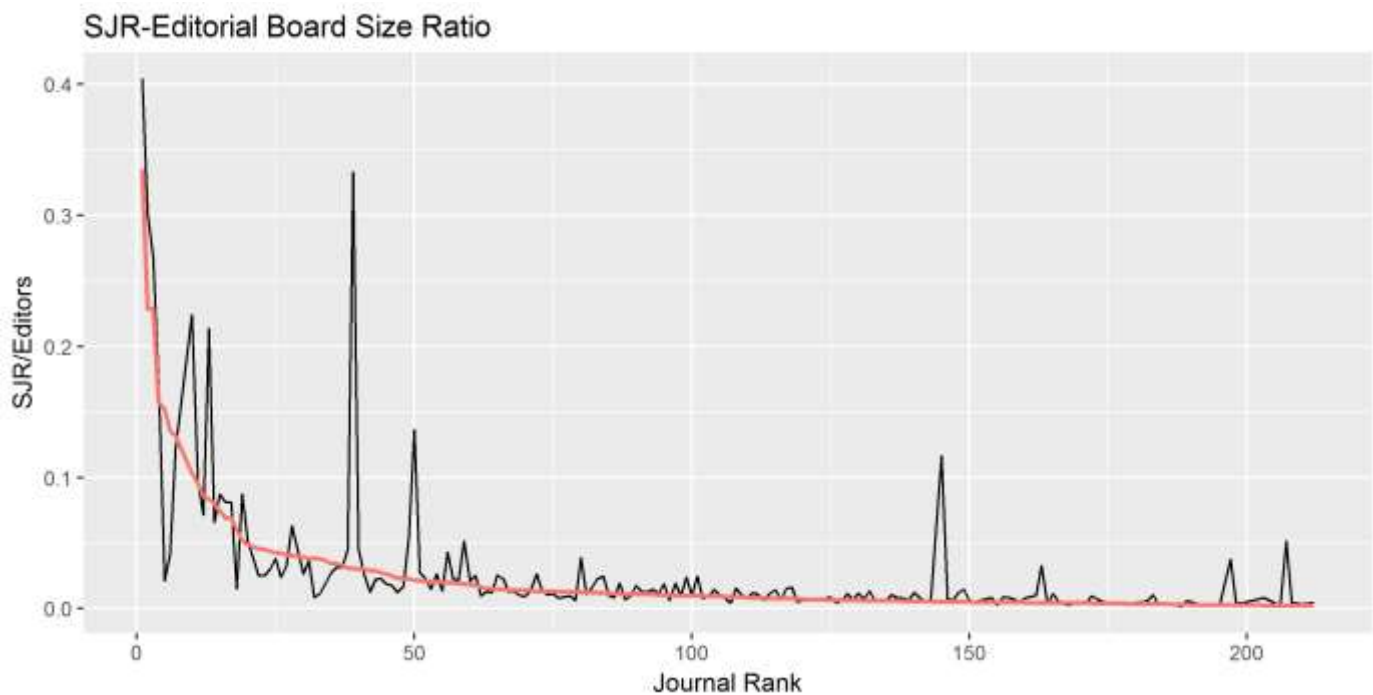


Figure 3.0.4 Sjr - editorial board size ratio

From our line graph, apart from our first drop which is normal, we see 8 peaks. These peaks are because of the journal's board size is very small and if near 0 the board size is very big according to their SJr. The red line shows us how the ratio would be if all editorial board sizes where the same (here we used the average editorial board size). Next follows the H index editorial board size ratio.

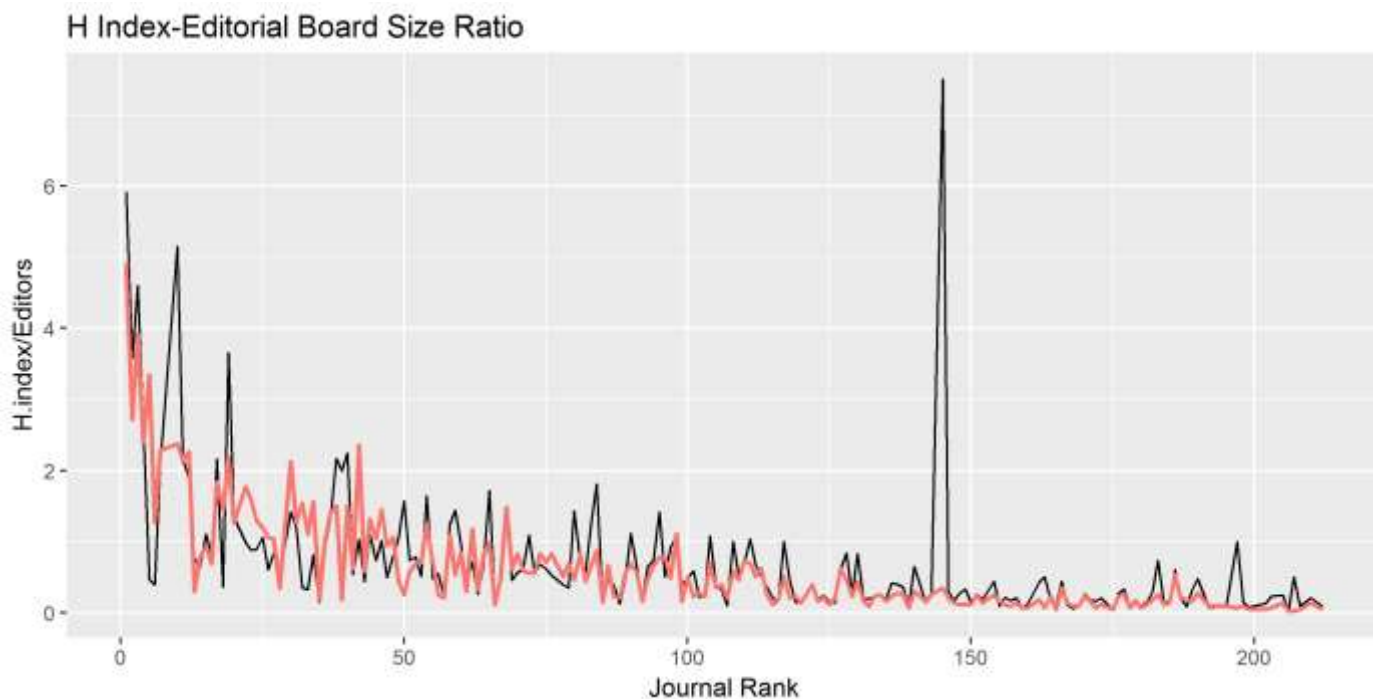


Figure 3.0.5 H index -editorial size ratio

We have done the same thing for H index and as we can see we have more peaks which means for the H index a journal has the board size is small. So we can say that the SJr indicator matches more with the board size apart some outliers. Here because the h index is not sorted we see that the red line peaks all the time. So for the next

graph we have sorted the H index to show the difference. The red line shows us how the ratio would be if all editorial board sizes where the same (we used the average editorial board size).

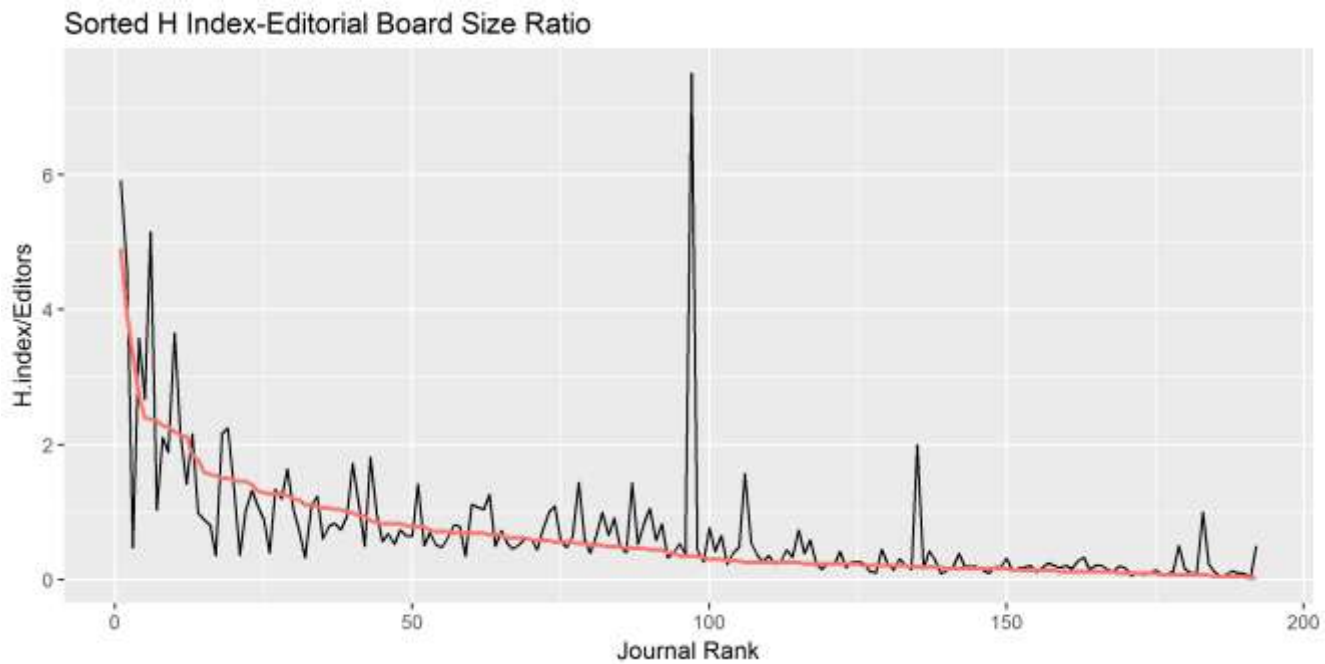


Figure 3.0.6 Sorted H index -editorial size ratio

So here we can say that we have much more peaks that the SJR-Editorial Board size ratio so the boards sizes have a higher correlation with Sjr.

We made a comparison which journal has the highest percentage in tier 1 taking under consideration their board size.

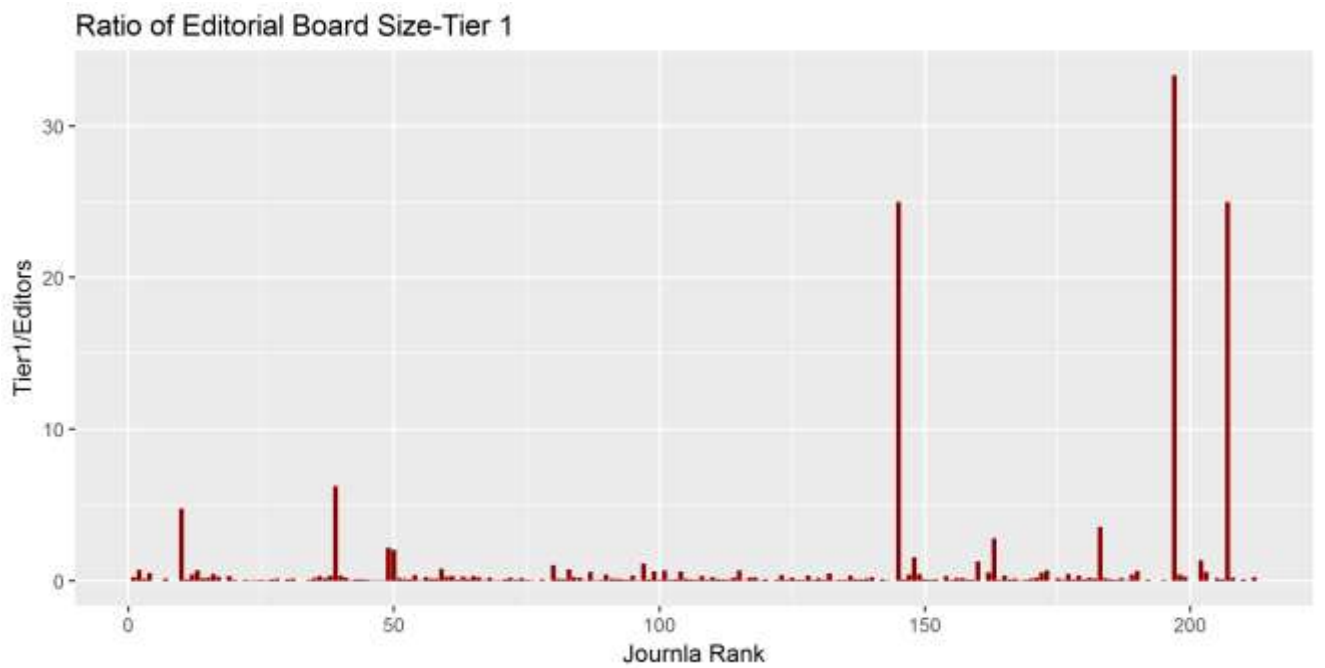


Figure 3.0.7 Editorial size -tier 1 ratio

From the graph we can see that three journals are above all (*Financial Markets Institutions and Instruments*, *Economia Chilena*, *ATA Journal of Legal Tax Research*) these journals are the three journals with the smallest editorial board size 2, 2 and 3 respectively. So we removed them to have a better view in the rest of our data.

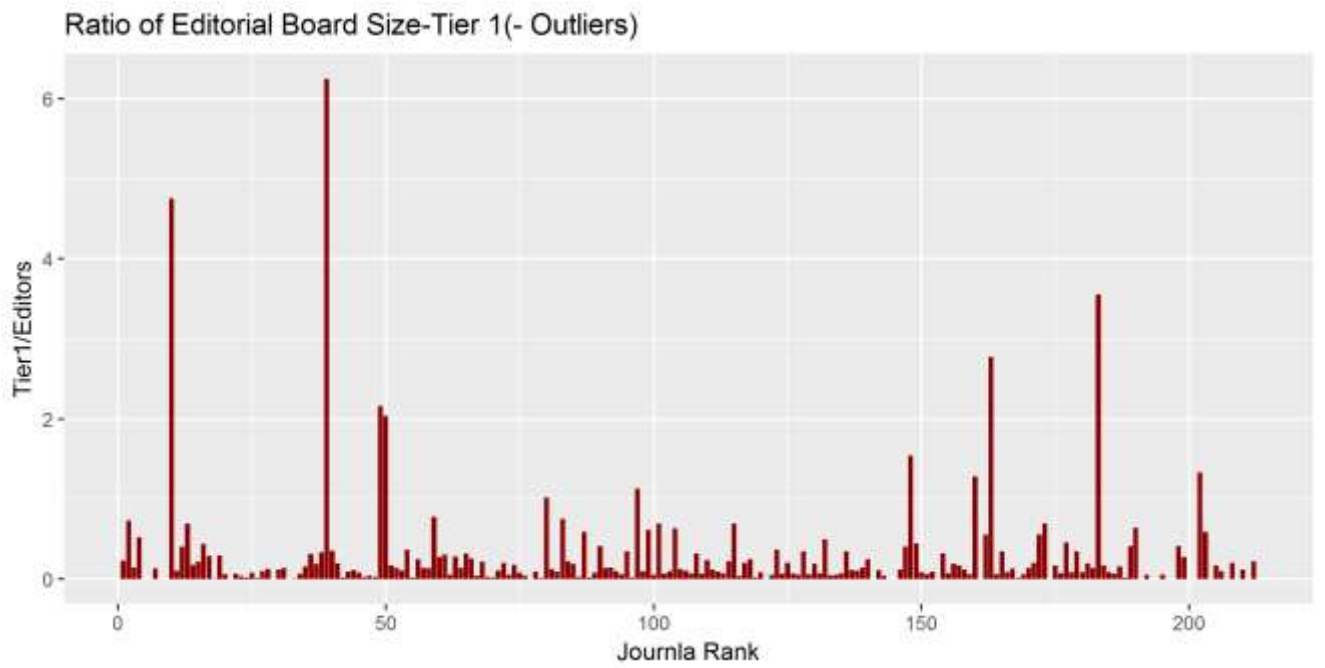


Figure 3.0.8 Editorial size -tier 1 ratio without outliers

But again we see the same problem, as smaller the board size is the more peaks we have so we choose the journals the have a board size greater than 15 people and proceeded in the same analysis.

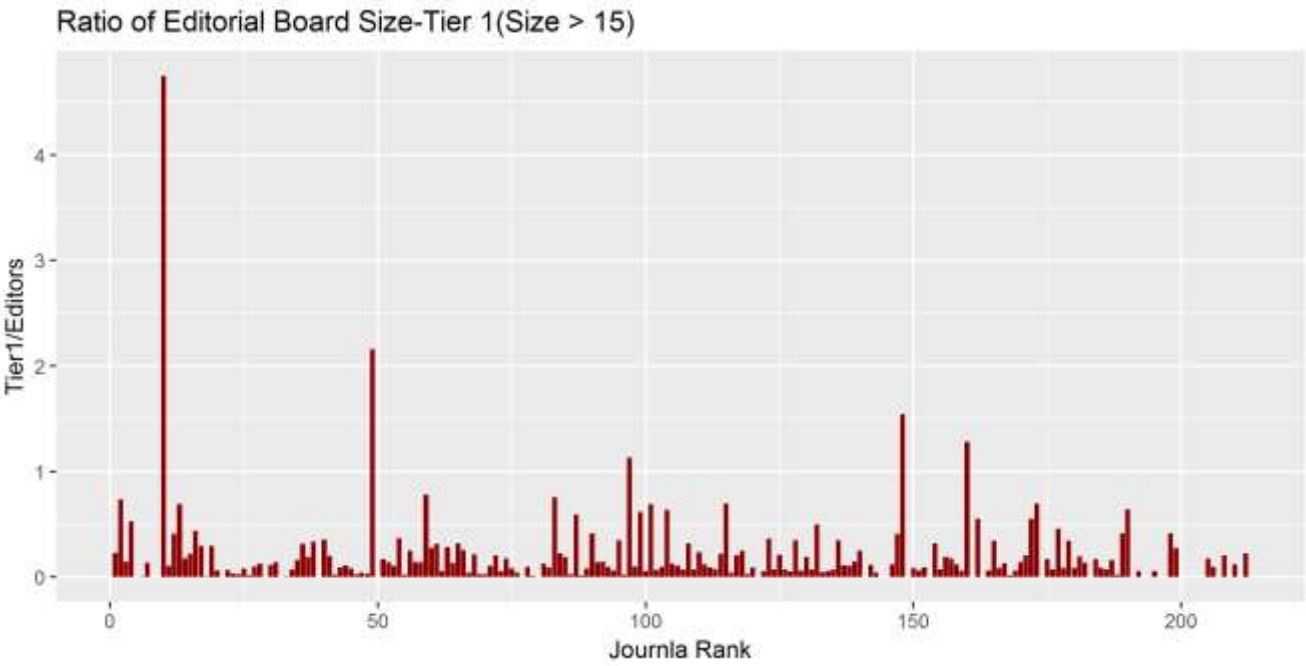


Figure 0.9 Editorial size -tier 1 ratio over 15 seat per editorial

Now we have a clearer view and we can say which journal has the most people in tier 1 according to the editorial board size

3.4.2.2 Editorial Board Countries Size

As we explained in a previous chapter each person is affiliated with an institution or university and each of them is in a country where we name it the affiliations country. Here we counted the total affiliations countries of each boar . For example journal of finance is affiliated with 5 countries, which means that the editorial board's affiliations are from 5 different countries. From the following graph we can see whith how many countries each journal is affiliated with. 1 country is the minimum number and 33 countries is the greatest. The red line shows us the average journal's countries size.

```
summary(Data$Total.Countries)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	1.000	6.000	9.000	9.604	13.000	33.000

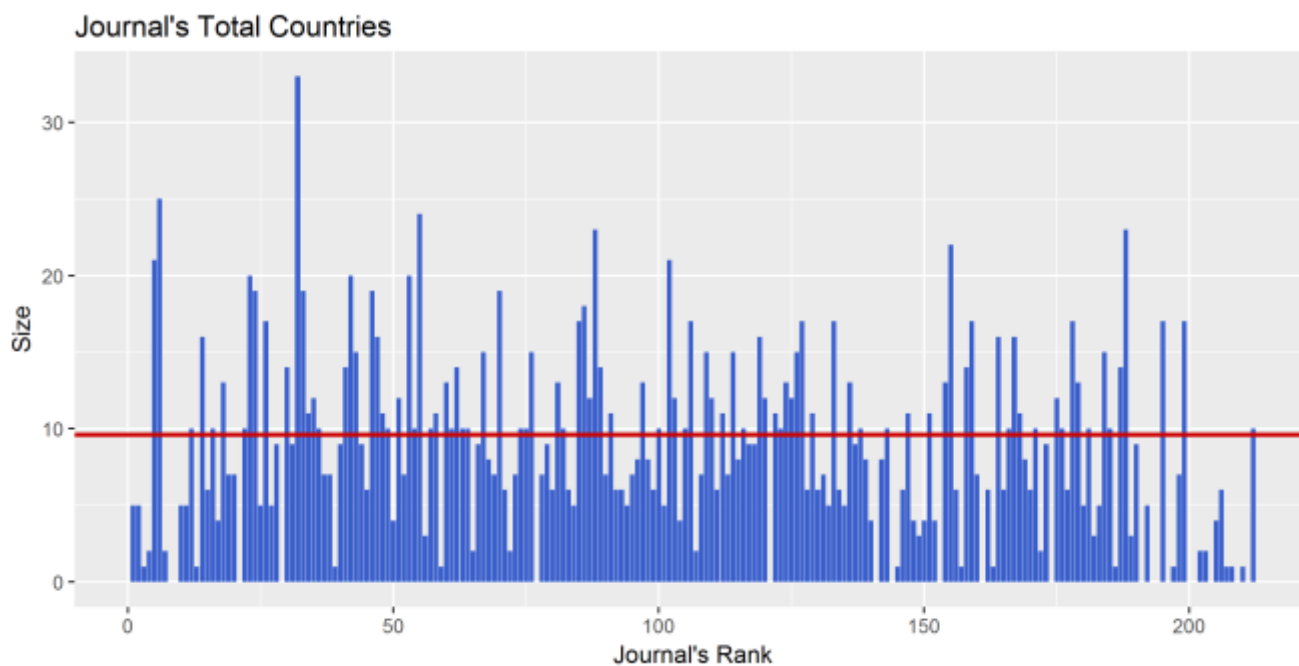


Figure 3.0.10 Journlas total countries

In order to see how many journals have low countries we created the following graph which show us how many journals have 1,2,3..... N countries.

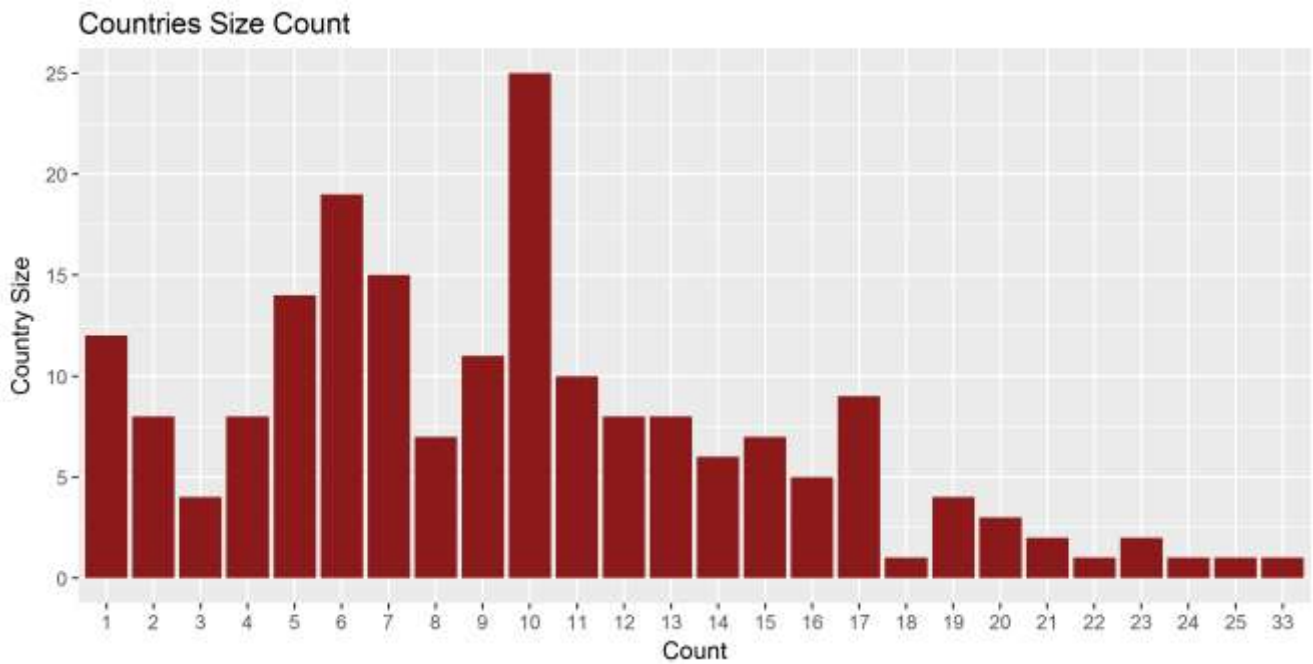


Figure 3.0.11 Journals country size

So 12 journals are affiliated only with 1 country and we are very keen to see these journals and which country is it in each of them. The most journals have 10 countries.

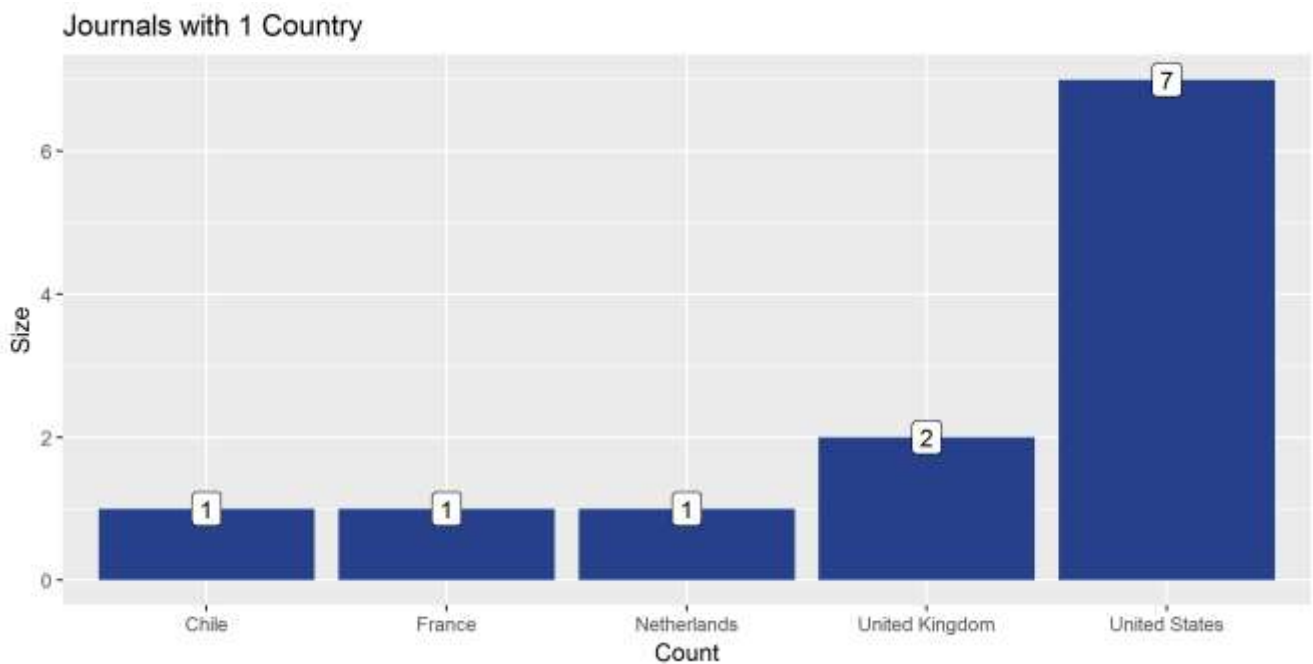


Figure 3.0.12 Journals with 1 country

So from the 12 journals that have only 1 country the 10 of them are affiliated with a USA institution (not surprised) and also from the 10 journals 7 are United States journals the other three are from Netherlands and two from UK.

Next follows two box plots that show how the affiliation’s countries are distributed in each quartile according to the SJR and H index indicators.

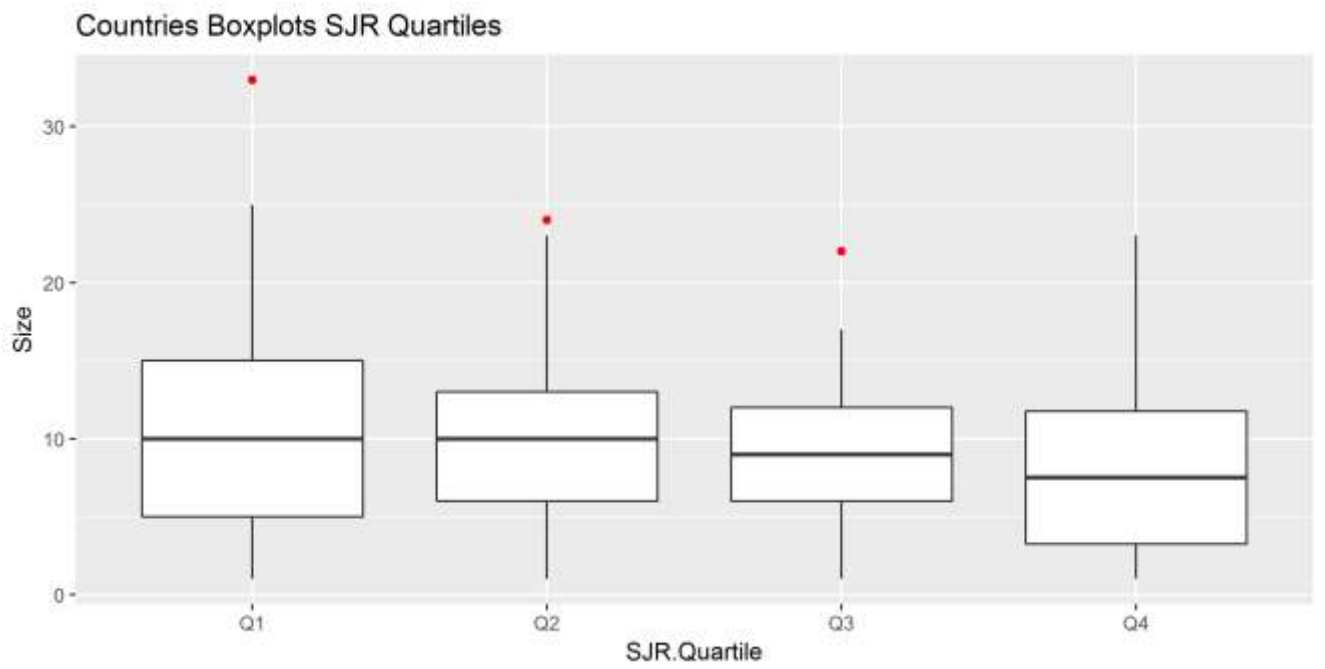


Figure 3.0.13 Countries sjr boxplots

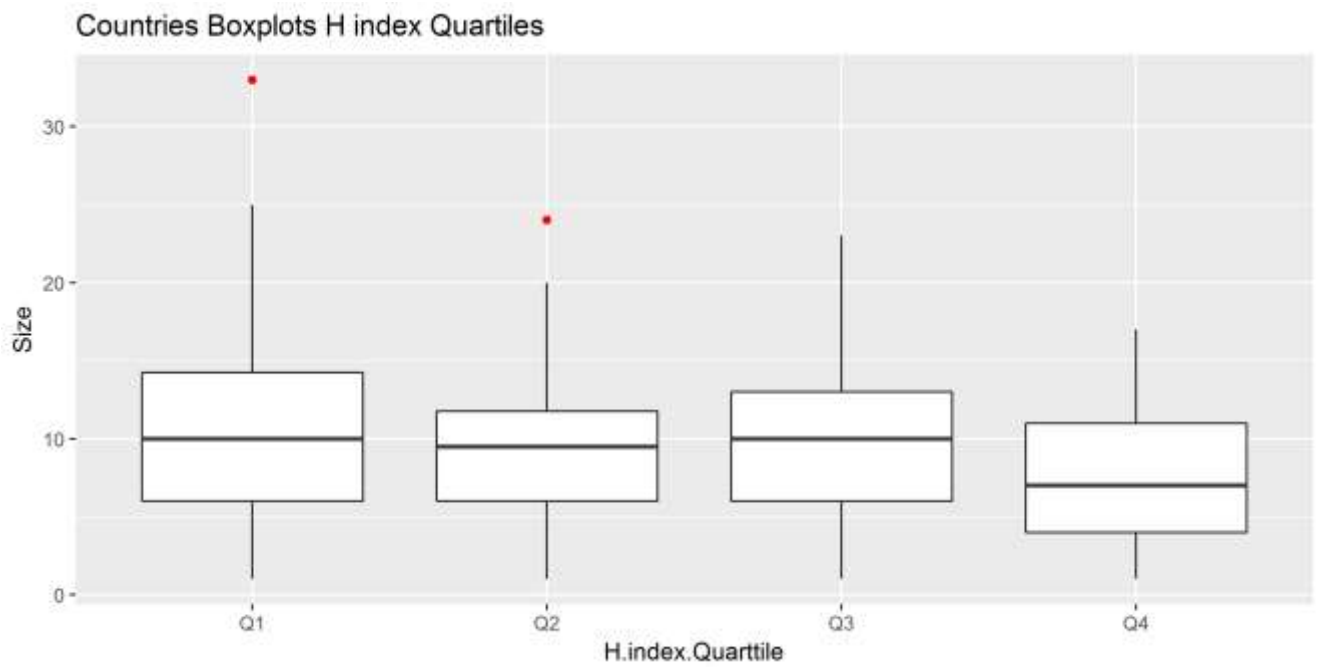


Figure3.0.14 Countries h index boxplots

Again here they have almost the same allocation, the only exception is in the Q3 where in H index the countries are more.

3.4.2.3 Journal's Affiliation Size

From the previous chapter we saw that each journal is affiliated from 1 to 33 countries, here we want to see each journals affiliation size.

The minimum affiliation is 1, there is a journal that is affiliated with only one university and we will expect this one to be the one with the smallest board size and the maximum affiliation is 173 different institutions and universities whereas the average journals affiliation is 33.

```
summary(Data$Total.Affiliations)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	1.0	20.0	29.5	33.1	40.0	173.0

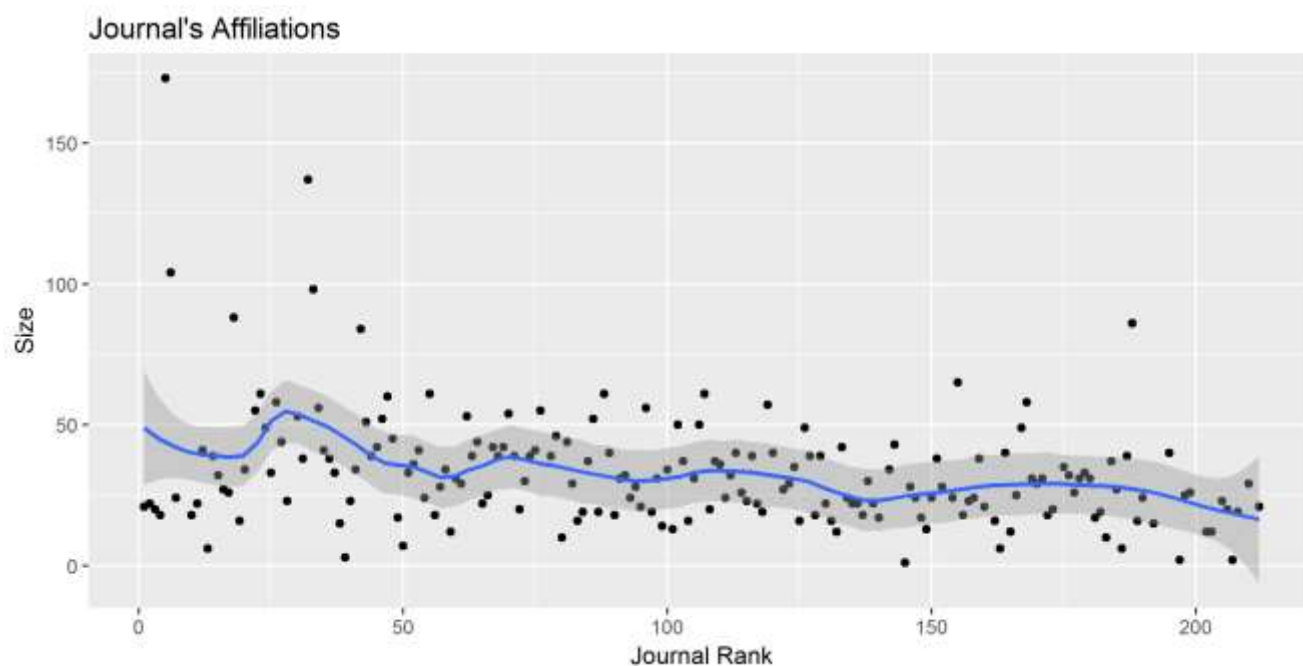


Figure 3.0.15 Journals Affiliations size

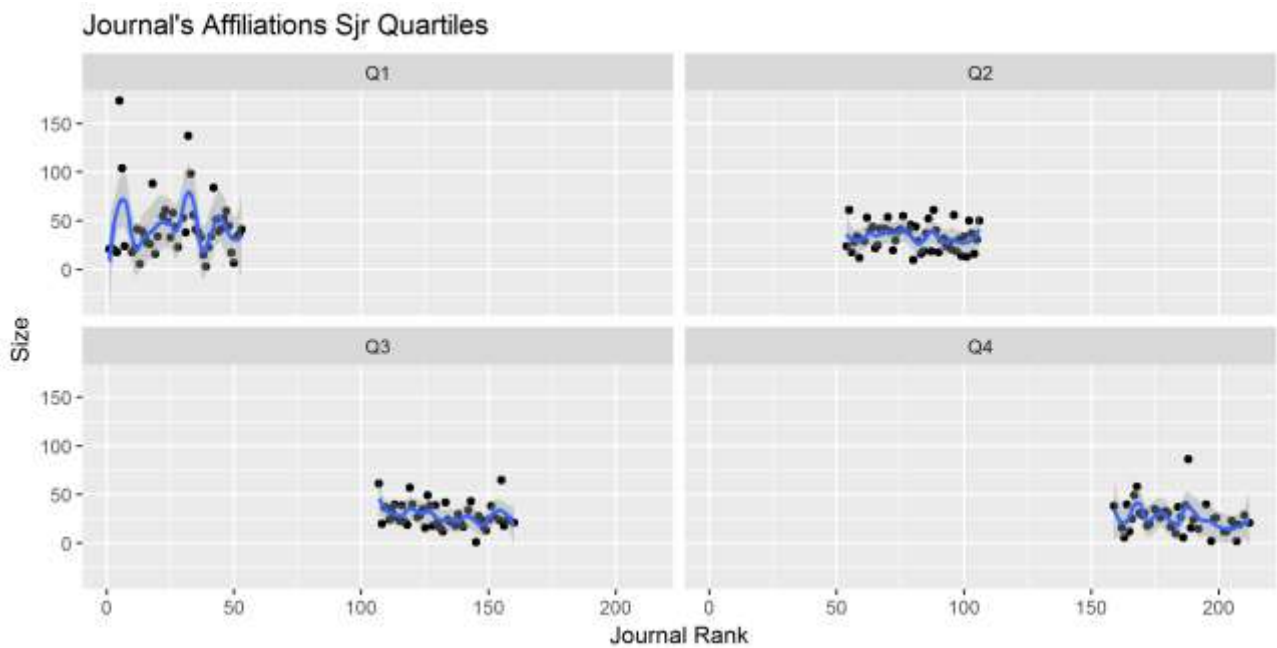


Figure 3.0.16 Journals affiliation in Sjr quartiles

From the first graph we see the affiliations allocation and to have a closer view a created the graph above which shows us if the affiliation is getting bigger or smaller as the SJR decreases. As we can see they are about the same in each quartile and only in the first one we have so many outliers. Also we can cross over with the following boxplots. And again we observe the same thing as from the previous boxplots.

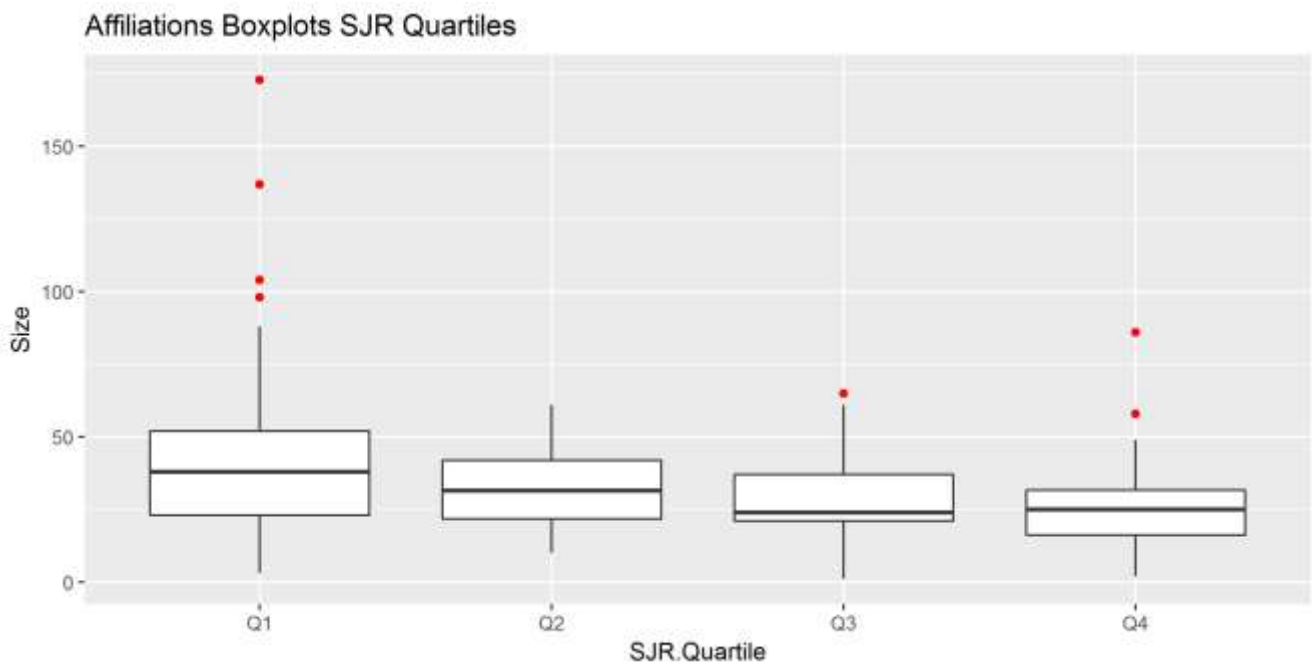


Figure 3.0.17 Affiliations sjr boxplots

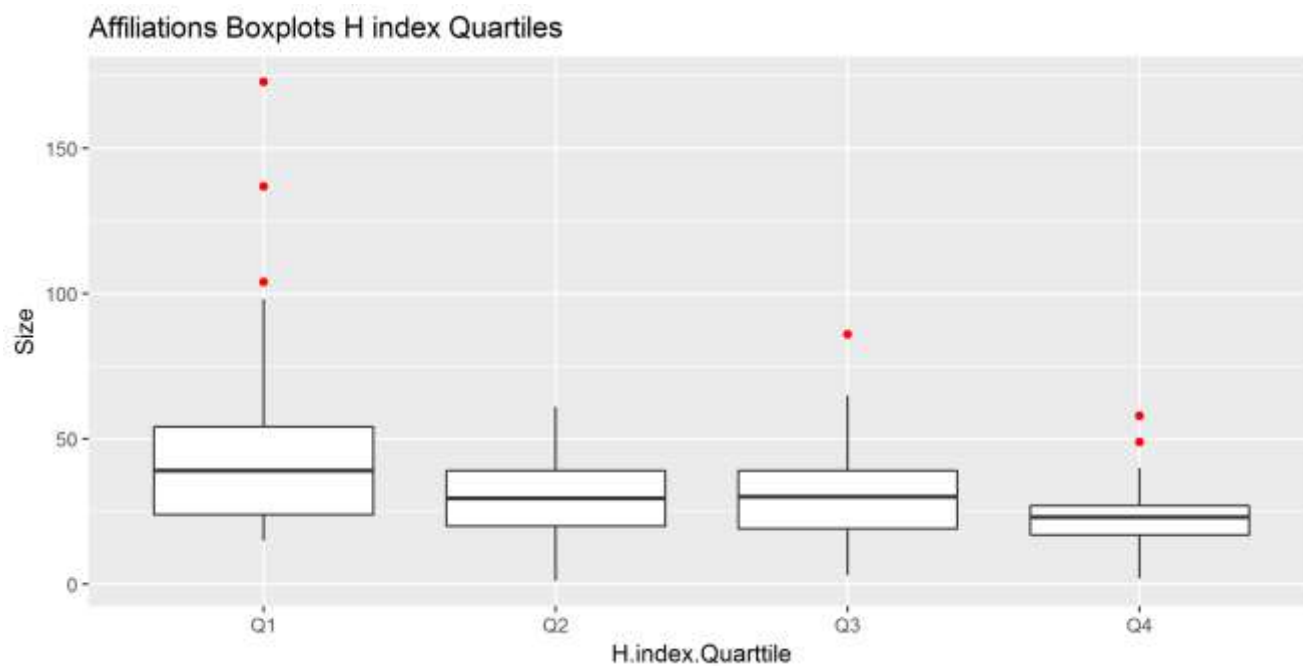


Figure 3.0.18 Affiliations H index boxplots

3.5 Individual Journal Analysis

3.5.1 Top Journal

Journal of Finance

Tier Allocation & Explanation

Tier	Total	Percent		Tier	Adjusted.Position	Total	Position
1	3	8.33		1	editor	3	#N/A
2	33	91.67		2	associate_editor	33	#N/A
Sum	36			1	#N/A	2	co_editor
				1	#N/A	1	editor
				2	#N/A	33	associate_editor

Table 4 Journal of Finance Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
usa	27	2	25	0	75
france	4	1	3	0	11.1
uk_england	3	0	3	0	8.3
canada	1	0	1	0	2.8
switzerland	1	0	1	0	2.8

Table 5 Journal of Finance Countries explanation

Affiliation

Affiliation	Total	Tier1	Tier2	Tier3	Percentages
london_school_of_economics	3	0	3	0	8.3
northwestern_university	3	0	3	0	8.3
stanford_university	3	1	2	0	8.3
duke_university	2	0	2	0	5.6
hec_paris_école_des_hautes_etudes_commerciales_de_paris	2	0	2	0	5.6
massachusetts_institute_of_technology	2	0	2	0	5.6
new_york_university	2	0	2	0	5.6
toulouse_1_university_capitole_université_toulouse_1_capitole	2	1	1	0	5.6
university_of_california_at_berkeley	2	0	2	0	5.6
university_of_minnesota	2	0	2	0	5.6
university_of_north_carolina_at_chapel_hill	2	0	2	0	5.6
university_of_pennsylvania	2	1	1	0	5.6
boston_college	1	0	1	0	2.8
columbia_university	1	0	1	0	2.8
cornell_university	1	0	1	0	2.8
johns_hopkins_university	1	0	1	0	2.8
university_of_british_columbia	1	0	1	0	2.8
university_of_california_at_los_angeles	1	0	1	0	2.8
university_of_chicago	1	0	1	0	2.8
university_of_zurich_universität_zürich	1	0	1	0	2.8
yale_university	1	0	1	0	2.8

Table 6 Journal of Finance Affiliation explanation

3.5.2 Journals with Extreme Size Boards

5. Journal of Management

Tier Allocation & Explanation

Tier	Total	Percent		Tier	Adjusted.Position	n	Position
1	1	0.33		1	editor	1	#N/A
2	14	4.56		2	associate_editor	14	#N/A
3	292	95.11		3	editorial_assistant	2	#N/A
Sum	307			3	editorial_board	290	#N/A
				1	#N/A	1	editor
				2	#N/A	12	associate_editor_team
				2	#N/A	2	senior_associate_editor
				3	#N/A	1	editorial_assistant
				3	#N/A	290	editorial_board
				3	#N/A	1	managing_editor

Table 7 Journal of Management Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
usa	218	1	12	205	71.2
uk_england	18	0	0	18	5.9
australia	11	0	0	11	3.6
canada	11	0	0	11	3.6
hong_kong	7	0	1	6	2.3
singapore	7	0	0	7	2.3
netherlands	5	0	1	4	1.6
italy	4	0	0	4	1.3
spain	4	0	0	4	1.3
france	3	0	0	3	1
germany	3	0	0	3	1
switzerland	3	0	0	3	1
india	2	0	0	2	0.7
new_zealand	2	0	0	2	0.7
taiwan	2	0	0	2	0.7
brazil	1	0	0	1	0.3
china	1	0	0	1	0.3
denmark	1	0	0	1	0.3
israel	1	0	0	1	0.3
mexico	1	0	0	1	0.3
uk_scotland	1	0	0	1	0.3

Table 8 Journal of Management Countries explanation

Affiliation	Total	Tier 1	Tier 2	Tier 3	Percentage
university_of_south_carolina	12	1	0	11	3.9
oklahoma_state_university	7	0	1	6	2.3
arizona_state_university	6	0	0	6	2
portland_state_university	6	0	0	6	2
colorado_state_university	5	0	0	5	1.6
michigan_state_university	5	0	0	5	1.6
purdue_university	5	0	0	5	1.6
rice_university	5	0	1	4	1.6
singapore_management_university	5	0	0	5	1.6
city_university_of_hong_kong	4	0	1	3	1.3
ohio_state_university	4	0	0	4	1.3
rutgers_university	4	0	0	4	1.3
syracuse_university	4	0	1	3	1.3
university_of_central_florida	4	0	0	4	1.3
university_of_illinois_at_urbana_champaign	4	0	0	4	1.3
university_of_utah	4	0	1	3	1.3
auburn_university	3	0	0	3	1
bocconi_university_università_commerciale_luigi_bocconi	3	0	0	3	1
erasmus_university_rotterdam_erasmus_niversiteit_rotterdam	3	0	0	3	1
florida_state_university	3	0	0	3	1
indiana_university	3	0	1	2	1
king_s_college	3	0	0	3	1
pennsylvania_state_university	3	0	0	3	1
texas_a_and_m_university	3	0	0	3	1
university_of_arkansas	3	0	0	3	1
university_of_georgia	3	0	1	2	1
university_of_illinois_at_chicago	3	0	0	3	1
university_of_maryland	3	0	0	3	1
university_of_missouri	3	0	1	2	1
university_of_oklahoma	3	0	0	3	1
university_of_toronto	3	0	0	3	1
university_of_wisconsin	3	0	0	3	1
virginia_tech	3	0	1	2	1
west_virginia_university	3	0	0	3	1
australian_national_university	2	0	0	2	0.7
brigham_young_university	2	0	0	2	0.7
city_university_of_london	2	0	0	2	0.7
cornell_university	2	0	0	2	0.7
drexel_university	2	0	1	1	0.7
george_mason_university	2	0	1	1	0.7
georgetown_university	2	0	0	2	0.7
georgia_state_university	2	0	0	2	0.7
miami_university	2	0	0	2	0.7
northern_illinois_university	2	0	0	2	0.7
oregon_state_university	2	0	0	2	0.7
state_university_of_new_york_at_stony_brook	2	0	0	2	0.7

university_of_alabama	2	0	0	2	0.7
university_of_amsterdam_universiteit_van_amsterdam	2	0	1	1	0.7
university_of_arizona	2	0	0	2	0.7
university_of_british_columbia	2	0	0	2	0.7
university_of_connecticut	2	0	0	2	0.7
university_of_florida	2	0	0	2	0.7
university_of_iowa	2	0	0	2	0.7
university_of_memphis	2	0	1	1	0.7
university_of_new_south_wales	2	0	0	2	0.7
university_of_north_carolina	2	0	0	2	0.7
university_of_pittsburgh	2	0	0	2	0.7
university_of_queensland	2	0	0	2	0.7
university_of_sydney	2	0	0	2	0.7
university_of_tennessee	2	0	0	2	0.7
university_of_texas_at_arlington	2	0	0	2	0.7
university_of_virginia	2	0	0	2	0.7
university_of_warwick	2	0	0	2	0.7
villanova_university	2	0	0	2	0.7
american_university	1	0	0	1	0.3
aston_university	1	0	0	1	0.3
babson_college	1	0	0	1	0.3
boston_college	1	0	0	1	0.3
bowling_green_state_university	1	0	0	1	0.3
brunel_university_london	1	0	0	1	0.3
california_state_university	1	0	0	1	0.3
clemson_university	1	0	0	1	0.3
cleveland_state_university	1	0	0	1	0.3
copenhagen_business_school_handelshøjskolen_i_københavn	1	0	0	1	0.3
coventry_university	1	0	0	1	0.3
depaul_university	1	0	0	1	0.3
development_dimensions_international	1	0	0	1	0.3
drake_university	1	0	0	1	0.3
duquesne_university	1	0	0	1	0.3
east_carolina_university	1	0	0	1	0.3
ebs_university_of_business_and_law_universität_für_wirtschaft_und_recht	1	0	0	1	0.3
elon_university	1	0	0	1	0.3
emlyon_business_school	1	0	0	1	0.3
esade	1	0	0	1	0.3
florida_atlantic_university	1	0	0	1	0.3
fordham_university	1	0	0	1	0.3
george_washington_university	1	0	0	1	0.3
georgia_institute_of_technology	1	0	0	1	0.3
grenoble_school_of_management_grenoble_ecole_de_management	1	0	0	1	0.3
hong_kong_polytechnic_university	1	0	0	1	0.3
hong_kong_university_of_science_and_technology	1	0	0	1	0.3
illinois_institute_of_technology	1	0	0	1	0.3
indian_institute_of_management	1	0	0	1	0.3

indian_school_of_business	1	0	0	1	0.3
insead_singapore	1	0	0	1	0.3
insper_institute_of_education_and_research	1	0	0	1	0.3
iowa_state_university	1	0	0	1	0.3
kennesaw_state_university	1	0	0	1	0.3
london_school_of_economics	1	0	0	1	0.3
medical_university_of_south_carolina	1	0	0	1	0.3
michigan_technological_university	1	0	0	1	0.3
mississippi_state_university	1	0	0	1	0.3
nanyang_technological_university	1	0	0	1	0.3
national_chengchi_university	1	0	0	1	0.3
national_sun_yat-sen_university	1	0	0	1	0.3
new_york_university	1	0	0	1	0.3
north_carolina_state_university	1	0	0	1	0.3
northeastern_university	1	0	0	1	0.3
northern_alberta_institute_of_technology	1	0	0	1	0.3
northwestern_university	1	0	0	1	0.3
old_dominion_university	1	0	0	1	0.3
peking_university	1	0	0	1	0.3
queen_s_university	1	0	0	1	0.3
saint_louis_university	1	0	0	1	0.3
saint_mary_s_college_of_california	1	0	0	1	0.3
southern_methodist_university	1	0	0	1	0.3
st_mary_s_university	1	0	0	1	0.3
state_university_of_new_york_at_buffalo	1	0	0	1	0.3
successfactors_an_sap_company	1	0	0	1	0.3
temple_university	1	0	0	1	0.3
texas_christian_university	1	0	0	1	0.3
texas_state_university	1	0	0	1	0.3
texas_tech_university	1	0	0	1	0.3
the_university_of_hong_kong	1	0	0	1	0.3
the_university_of_newcastle	1	0	0	1	0.3
the_university_of_western_australia	1	0	0	1	0.3
tulane_university	1	0	0	1	0.3
united_states_air_force_academy	1	0	0	1	0.3
universidad_panamericana	1	0	0	1	0.3
university_of_applied_sciences_hes_so_haute_école_spécialisée_de_suisse_occidentale	1	0	0	1	0.3
university_of_auckland_te_whare_wananga_o_tamaki_makaurau	1	0	0	1	0.3
university_of_calgary	1	0	0	1	0.3
university_of_california	1	0	0	1	0.3
university_of_cincinnati	1	0	0	1	0.3
university_of_colorado	1	0	0	1	0.3
university_of_east_anglia	1	0	0	1	0.3
university_of_glasgow	1	0	0	1	0.3
university_of_haifa	1	0	0	1	0.3
university_of_houston	1	0	0	1	0.3
university_of_kansas	1	0	0	1	0.3

university_of_lausanne_université_de_lausanne	1	0	0	1	0.3
university_of_leicester	1	0	0	1	0.3
university_of_liverpool	1	0	0	1	0.3
university_of_massachusetts	1	0	0	1	0.3
university_of_melbourne	1	0	0	1	0.3
university_of_minnesota	1	0	0	1	0.3
university_of_munich_ludwig_maximilians_universität_münchen	1	0	0	1	0.3
university_of_nevada	1	0	0	1	0.3
university_of_nice_sophia_antipolis_université_nice_sophia_antipolis	1	0	0	1	0.3
university_of_north_carolina_at_charlotte	1	0	0	1	0.3
university_of_north_dakota	1	0	0	1	0.3
university_of_oregon	1	0	1	0	0.3
university_of_ottawa	1	0	0	1	0.3
university_of_oxford	1	0	0	1	0.3
university_of_potsdam_universität_potsdam	1	0	0	1	0.3
university_of_reading	1	0	0	1	0.3
university_of_santiago_de_compostela_universidad_de_santiago_de_c ompostela	1	0	0	1	0.3
university_of_sheffield	1	0	0	1	0.3
university_of_southern_california	1	0	0	1	0.3
university_of_st_gallen_universität_st_gallen	1	0	0	1	0.3
university_of_texas_at_austin	1	0	0	1	0.3
university_of_texas_at_el_paso	1	0	0	1	0.3
university_of_trento_università_degli_studi_di_trento	1	0	0	1	0.3
university_of_valencia_universidad_de_valencia	1	0	0	1	0.3
university_of_vermont	1	0	0	1	0.3
university_of_waterloo	1	0	0	1	0.3
university_of_zaragoza_universidad_de_zaragoza	1	0	0	1	0.3
utah_state_university	1	0	0	1	0.3
victoria_university_of_wellington	1	0	0	1	0.3
virginia_commonwealth_university	1	0	0	1	0.3
washington_state_university	1	0	0	1	0.3
western_university_london_ontario	1	0	0	1	0.3
york_university	1	0	0	1	0.3

Table 9 Journal of Management Affiliation explanation

145. Financial Markets Institutions and Instruments

Tier Allocation & Explanation

Tier	Total	Percent	Column1	Tier	Adjusted.Position	n	Position
1	1	50		1	editor	1	#N/A
3	1	50		3	editorial_assistant	1	#N/A
Sum	2			1	#N/A	1	editor
				3	#N/A	1	managing_editor

Table 10 Financial Markets Institutions and Instruments Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
usa	2	1	0	1	100

Table 11 Financial Markets Institutions and Instruments Countries explanation

Affiliation

Affiliation	Total	Tier1	Tier2	Tier3	Percentage
new_york_university	2	1	0	1	100

Table 12 Financial Markets Institutions and Instruments Affiliation explanation

207. ATA Journal of Legal Tax Research

Tier Allocation & Explanation

Tier	Total	Percent		Tier	Adjusted.Position	n	Position
1	1	50		1	editor	1	#N/A
2	1	50		2	associate_editor	1	#N/A
Sum	2			1	#N/A	1	editor
				2	#N/A	1	incoming_editor

Table 13 ATA Journal of Legal Tax Research Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
usa	2	1	1	0	100

Table 14 ATA Journal of Legal Tax Research Countries explanation

Affiliation

Affiliation	Total	Tier1	Tier2	Tier3	Percentage
drexel_university	1	1	0	0	50
north_carolina_state_university	1	0	1	0	50

Table 15 ATA Journal of Legal Tax Research Affiliation explanation

3.5.3 Journals with highest Ratio in Tier 1 according to their SJR (Tier1/SJR)

10. Accounting Review

Tier Allocation & Explanation

Tier	Total	Percent	Column1	Tier	Adjusted.Position	n	Position
1	19	100		1	editor	19	#N/A
				#N/A	editorial_assistant	1	#N/A
				1	#N/A	18	editor
				1	#N/A	1	senior_editor
				#N/A	#N/A	1	editorial_assistant

Table 16 Accounting Review Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
usa	15	15	0	0	78.9
hong_kong	1	1	0	0	5.3
netherlands	1	1	0	0	5.3
singapore	1	1	0	0	5.3
uk_england	1	1	0	0	5.3

Table 17 Accounting Review Countries explanation

Affiliation

Affiliation	Total	Tier1	Tier2	Tier3	Percentage
university_of_southern_california	2	2	0	0	10.5
boston_college	1	1	0	0	5.3
chinese_university_of_hong_kong	1	1	0	0	5.3
duke_university	1	1	0	0	5.3
emory_university	1	1	0	0	5.3
london_business_school	1	1	0	0	5.3
nanyang_technological_university	1	1	0	0	5.3
ohio_state_university	1	1	0	0	5.3
rice_university	1	1	0	0	5.3
stanford_university	1	1	0	0	5.3
tilburg_university	1	1	0	0	5.3
university_of_illinois_at_urbana_champaign	1	1	0	0	5.3
university_of_michigan	1	1	0	0	5.3
university_of_missouri	1	1	0	0	5.3
university_of_north_carolina_at_chapel_hill	1	1	0	0	5.3
university_of_pennsylvania	1	1	0	0	5.3
university_of_utah	1	1	0	0	5.3
university_of_washington	1	1	0	0	5.3

Table 18 Accounting Review Affiliation explanation

49. Astin Bulletin

Tier Allocation & Explanation

Tier	Total	Percent	Column1	Tier	Adjusted.Position	n	Position
1	7	38.89		1	editor	7	#N/A
3	11	61.11		3	editorial_board	11	#N/A
Sum	18			1	#N/A	6	editor
				1	#N/A	1	editor_in_chief
				3	#N/A	11	editorial_board

Table 19 Astin Bulletin Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
usa	5	1	0	4	27.8
belgium	2	1	0	1	11.1
canada	2	0	0	2	11.1
switzerland	2	1	0	1	11.1
uk_england	2	2	0	0	11.1
australia	1	1	0	0	5.6
austria	1	0	0	1	5.6
netherlands	1	0	0	1	5.6
portugal	1	0	0	1	5.6
spain	1	1	0	0	5.6

Table 20 Astin Bulletin Countries explanation

Affiliation

Affiliation	Total	Tier1	Tier2	Tier3	Percentage
katholieke_university_of_leuven_katholieke_universiteit_leuven	2	1	0	1	11.1
brandeis_university	1	0	0	1	5.6
chartis_insurance	1	0	0	1	5.6
eth_zurich_eidgenössische_technische_hochschule_zürich	1	1	0	0	5.6
georgia_state_university	1	1	0	0	5.6
heriot_watt_university	1	1	0	0	5.6
imperial_college	1	1	0	0	5.6
simon_fraser_university	1	0	0	1	5.6
superior_de_economia_e_gestão	1	0	0	1	5.6
swiss_financial_market_supervisory_authority	1	0	0	1	5.6
tilburg_university	1	0	0	1	5.6
university_of_barcelona_universidad_de_barcelona	1	1	0	0	5.6
university_of_illinois_at_chicago	1	0	0	1	5.6
university_of_melbourne	1	1	0	0	5.6
university_of_pennsylvania	1	0	0	1	5.6
university_of_waterloo	1	0	0	1	5.6
vienna_university_of_technology_technische_universität_wien	1	0	0	1	5.6

Table 21 Astin Bulletin Affiliation explanation

148. Zeitschrift für die Gesamte Versicherungswissenschaft

Tier Allocation & Explanation

Tier	Total	Percent	Tier	Adjusted.Position	n	Position
1	5	27.78	1	editor	5	#N/A
2	12	66.67	2	associate_editor	12	#N/A
3	1	5.56	3	editorial_assistant	1	#N/A
Sum	18		1	#N/A	4	co_editor
			1	#N/A	1	editor
			2	#N/A	12	associate_editor
			3	#N/A	1	managing_editor

Table 22 Zeitschrift für die Gesamte Versicherungswissenschaft Tier Allocation & Explanation

Country

Country	Total	Tier1	Tier2	Tier3	Percentage
germany	12	4	7	1	70.6
usa	3	0	3	0	17.6
austria	1	0	1	0	5.9
switzerland	1	0	1	0	5.9

Table 23 Zeitschrift für die Gesamte Versicherungswissenschaft Countries explanation

Affiliation

Affiliation	Total	Tier 1	Tier 2	Tier 3	Percentage
university_of_hannover_leibniz_universität_hannover	2	1	0	1	11.1
florida_state_university	1	0	1	0	5.6
free_university_of_berlin_freie_universität_berlin	1	0	1	0	5.6
karlsruhe_institute_of_technology_universität_karlsruhe	1	0	1	0	5.6
scor_global_life_se_köln	1	1	0	0	5.6
techniker_krankenkasse_hamburg	1	0	1	0	5.6
tu_dresden_technische_universität_dresden	1	0	1	0	5.6
university_of_alabama	1	0	1	0	5.6
university_of_frankfurt_main_johann_wolfgang_goethe_universität_frankfurt_am_main	1	1	0	0	5.6
university_of_mainz_universität_mainz	1	0	1	0	5.6
university_of_mannheim_universität_mannheim	1	0	1	0	5.6
university_of_mons_université_de_mons	1	0	1	0	5.6
university_of_münster_westfälische_wilhelms_universität_münster	1	1	0	0	5.6
university_of_oldenburg_carl_von_ossietzky_universität_oldenburg	1	1	0	0	5.6
university_of_pennsylvania	1	0	1	0	5.6
university_of_zurich_universität_zürich	1	0	1	0	5.6
vienna_university_of_economics_and_business_wirtschaftsuniversität_wien	1	0	1	0	5.6

Table 24 Zeitschrift für die Gesamte Versicherungswissenschaft Affiliation explanation

4 SCImago Finance 2015 Networks

4.1 Introduction

In this final chapter we include our network analysis of our editorial boards. It is shown how the journals are connected to each other, which ones have the most bounds and which none. In order to perform the network analysis the program Gephi was used and all the network knowledge we taken from M.E.J Newman [56]. Gephi is computer software for graph and network analysis. Gephi takes as an import tables and after installing and running some plugins, it creates a table with different metrics and exports these figures where they will analysed in this chapter.

4.2 Creating the Incidence Matrix

From the chapter 6.6 Bipartite Networks in Newman's book we have created an incidence matrix. This matrix has for columns our journals titles and for rows our editorial boards Surnames and Names and it is filled with 0 and 1. Where a name matches a journal (a name belongs to the journal's editorial board) it is equal to 1 otherwise it is equal to zero. So if a row contains three 1, it means that the person in that row is connected with 3 journals, more precisely he is in three different editorial boards. In the incidence matrix we know the rows correspond to our editorial board names but they don't appear if we open the matrix, to keep track, a matrix with only the unique names was created by alphabetical order and this is our equal rows. So our incidence matrix is a 6552 x 192 matrix with 0 and 1.

After creating the incidence matrix (B), a weighted and an unweighted matrix must be created according to Newman. The weighted matrix is the transposed incidence matrix ($t(B)$) multiplied the incidence matrix (B) and setting the diagonal equal to zero. The unweighted matrix is equal to the weighted matrix but setting also the off-diagonal element equal to 1. These two matrices will be imported into Gephi and a figure table will be exported and analysed containing following titles: Connected Components, Degree, Modularity, Density, Average Clustering, Path, Centrality and the Page Rank. All matrices where created with R programming.

4.3 Undirected Unweighted Network

4.3.1 Connected Components

A component is a network's subgroup that all its elements are *connected*. In this subgroup no other element can be added (vertex). According to Newman every network has the *central component* where most vertices are connected. In the next graph it is shown which journals are connected to each other and the *central component* will be visualized.

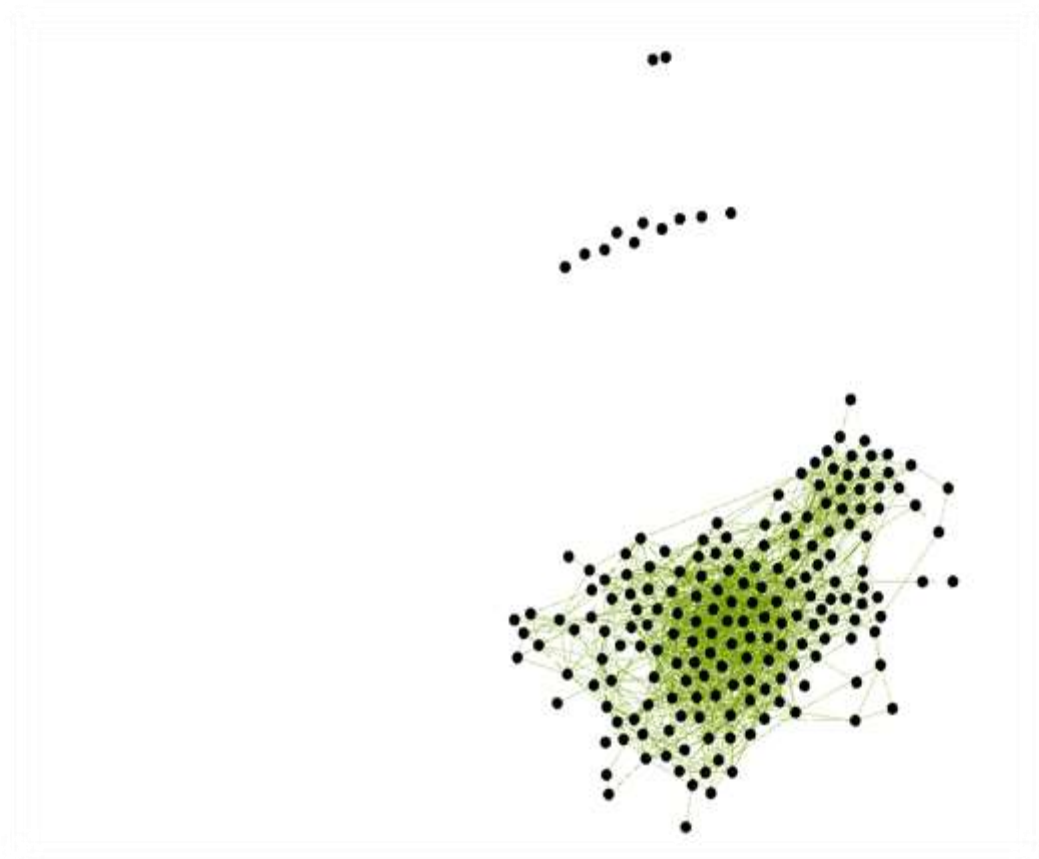


Figure 4.0.1 SCImago Finance 2015 Network 1 the black dots (vertices) represent the journals and the green lines (edges) the connections

It is clear from figure 4.0.1 we see 12 components. From 192 editorial boards 10 have no connection among the journals and 2 journals have a weak connection. More precisely our network is separated into three groups, Group 1 (*central component*) contains 180 journals which represent the 93.75% of our data, Group 2 which has 10 journals and it's the 5.2 % of our network also they are shown in table 1.2 and Group 3 where we have only two journals that are connected only to each other. Journals in Group 2 are disconnected from the network and don't have any connection at all. The median and mean SJR of the journals in the central component are 0.446 and 1.032 respectively which are bigger than the median and the mean of SCImago's list SJR 0.42 and 0.981 respectively. So the journals in the central component have a greater SJR.

Component Number	Journals	Percent
0	180	93.75
1	1	0.52
2	1	0.52
3	1	0.52
4	1	0.52
5	1	0.52
6	1	0.52
7	1	0.52
8	1	0.52
9	1	0.52
10	2	1.04
11	1	0.52

Table 25 Components

Group 1 or Central Component

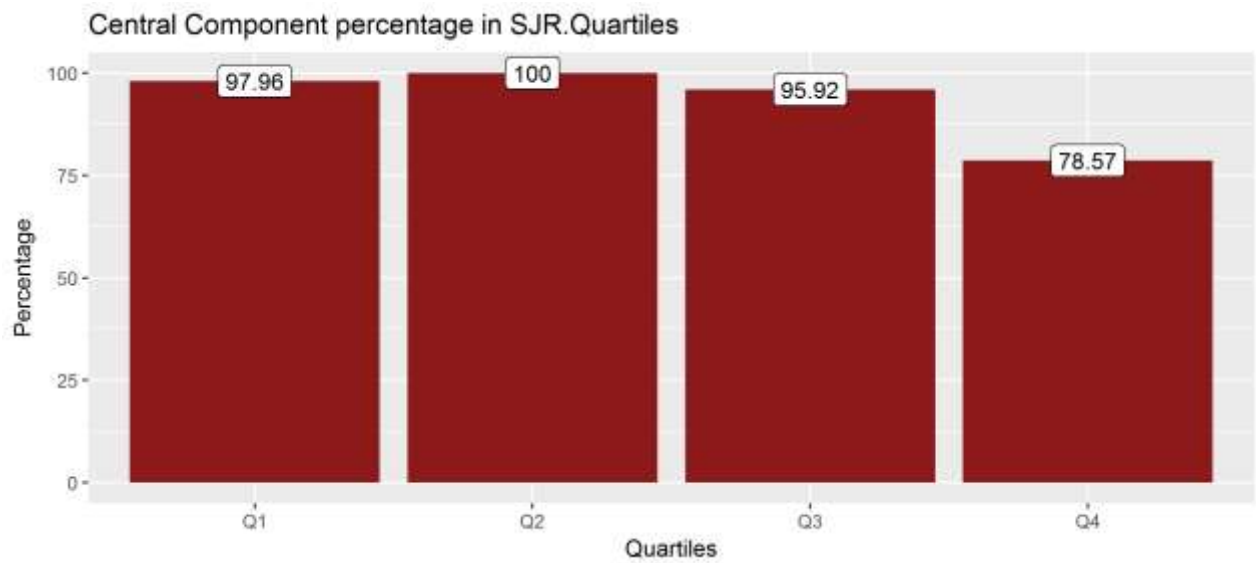


Figure 4.0.2 Central Component percentage in sjr quartiles

From our SCImago editorial board list we see that 100% of Q2 is in the central component. The same high density is also with H index quartiles but now Q1 journal are 100% in the central component (Figure 4.0.3).

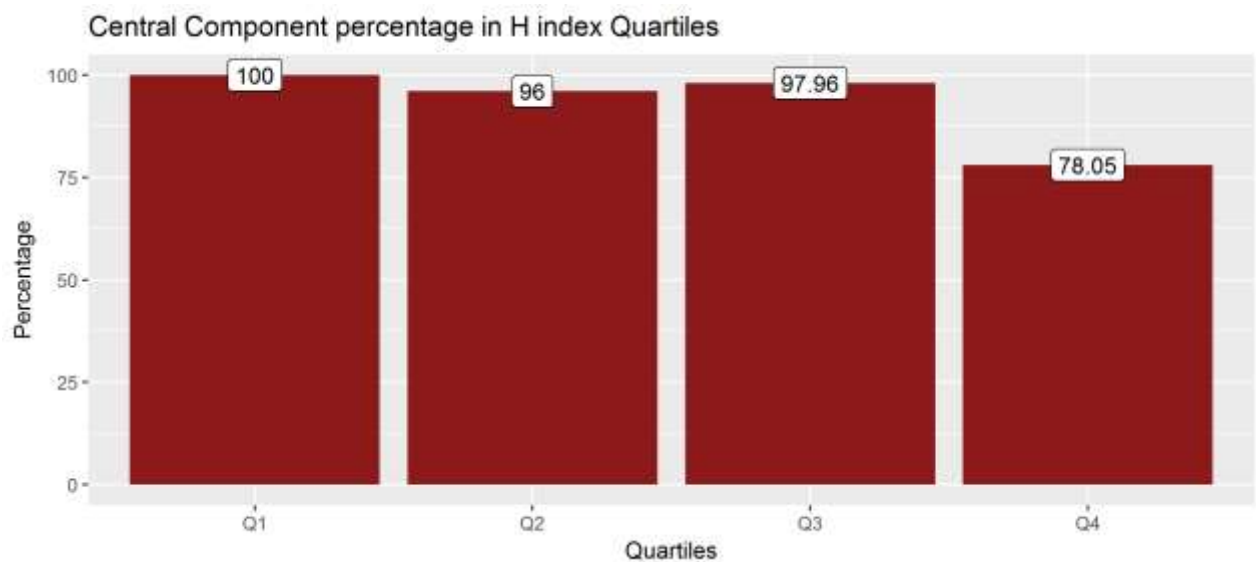


Figure 4.0.3 Central Component percentage in h index quartiles

Group 2

In table 1.2 we can see the journals that have no connections in SCImago Finance 2015 network, the percentage of these journals is 5.21%.

SCImago Rank	Journal
212	international_insolvency_review
207	ata_journal_of_legal_tax_research
197	economia_chilena
186	finance_and_development
185	revue_d.etudes_comparatives_est_ouest
165	indian_journal_of_finance
163	comptabilite_controle_audit
157	banking_law_journal
107	journal_of_education_finance
53	technological_and_economic_development_of_economy

Table 26 Group 2 of Components

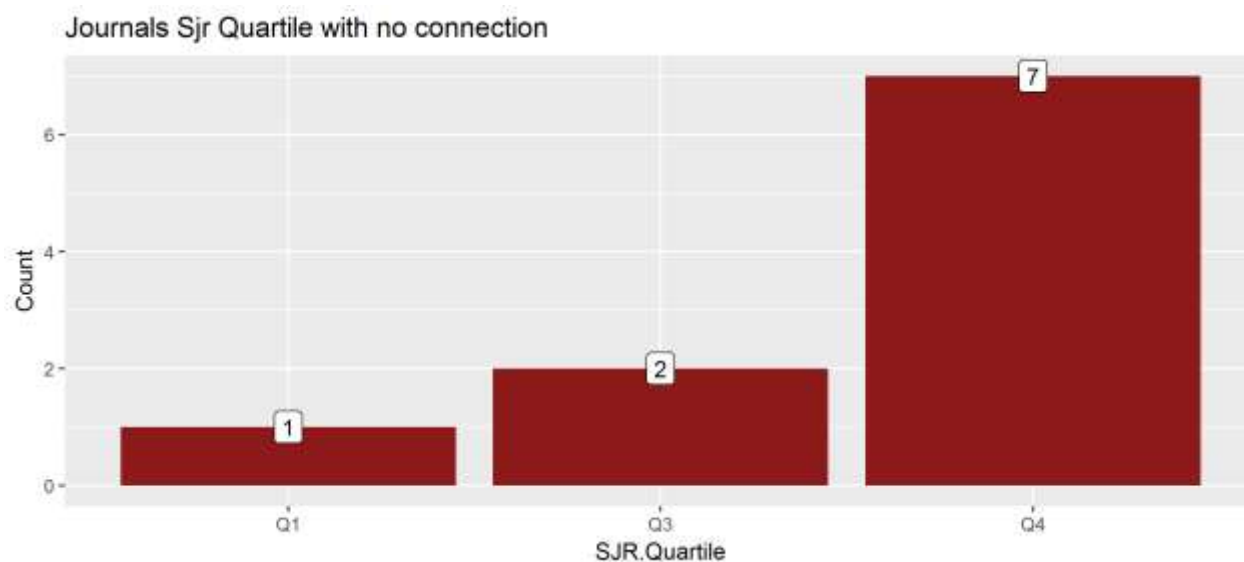


Figure 4.0.4 Journals with no connections in sjr quartiles

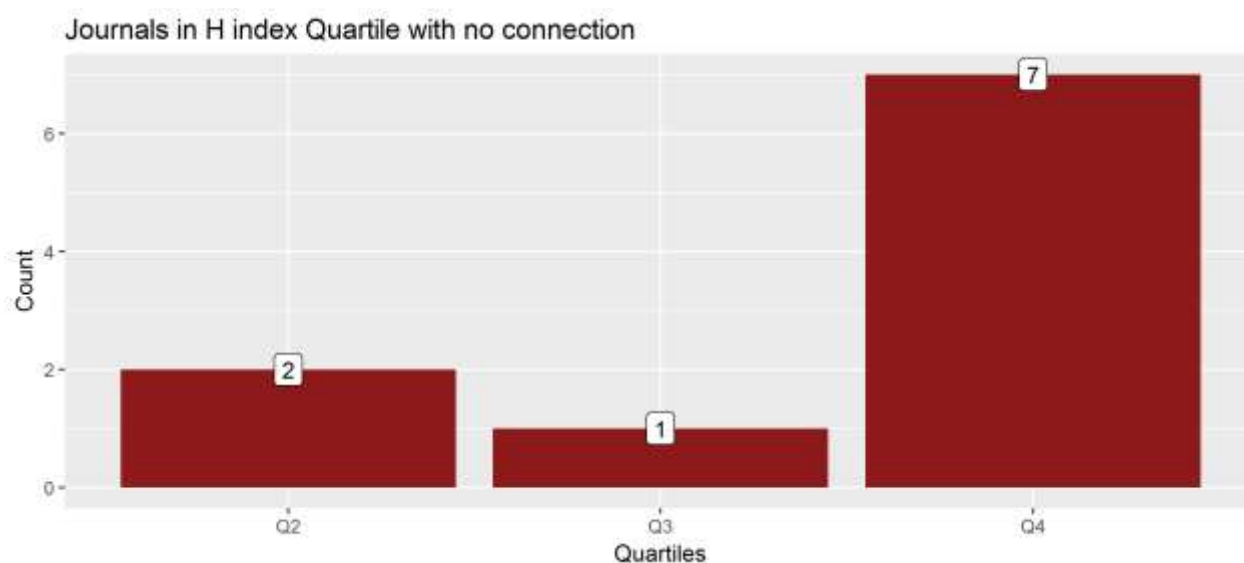


Figure 4.0.5 Journals with no connections in h index quartiles

Figure 4.0.4 and 4.0.5 show in which quartile these journals belong. As it shown the fourth quartile has the more journals with no connections with no journal from Q2 and the same occurs in H index quartiles but there is no journal from Q1.

Group 3

Group 3 represent the 1.042% journals from the SCImago Editorial board list. These journals are *Real estate taxation* and *Journal of taxation* ranked 208 and 210 in SCImago finance 2015 and belong in Q4 for SJR and H index quartiles.

4.3.2 Degree or Degree Centrality

The degree gives the number of edges (lines) a vertex has. In SCImago network the degree is translated as: how many “connections” a journal has. Gephi degree plugin result is 15.281 as the average degree of our network, each journal is connected with 15.281 journals. The top 15 degree are presented in table .

Rank	Journal	degree	Norm.Deg	Degree Rank
42	journal_of_banking_and_finance	57	1	1
167	review_of_development_finance	55	0.965	2
81	pacific_basin_finance_journal	53	0.93	3
74	journal_of_financial_services_research	45	0.789	4
151	international_journal_of_managerial_finance	45	0.789	4
78	journal_of_financial_research	45	0.789	4
109	emerging_markets_finance_and_trade	45	0.789	4
25	journal_of_financial_intermediation	42	0.737	5
86	international_review_of_financial_analysis	42	0.737	5
43	journal_of_financial_stability	41	0.719	6
63	annals_of_finance	41	0.719	6
55	journal_of_international_financial_markets_institutions_and_money	40	0.702	7
182	journal_of_fixed_income	40	0.702	7
35	international_review_of_finance	39	0.684	8
71	review_of_financial_economics	39	0.684	8

Table 27 Top 15 degrees

Overall Degree

Frequency

First we calculate the overall degree of our network including also the journals with 0 degree. We can see in table 2.1 each journals rank, degree and normalized degree. We have normalized all values for a better view on our diagrams.

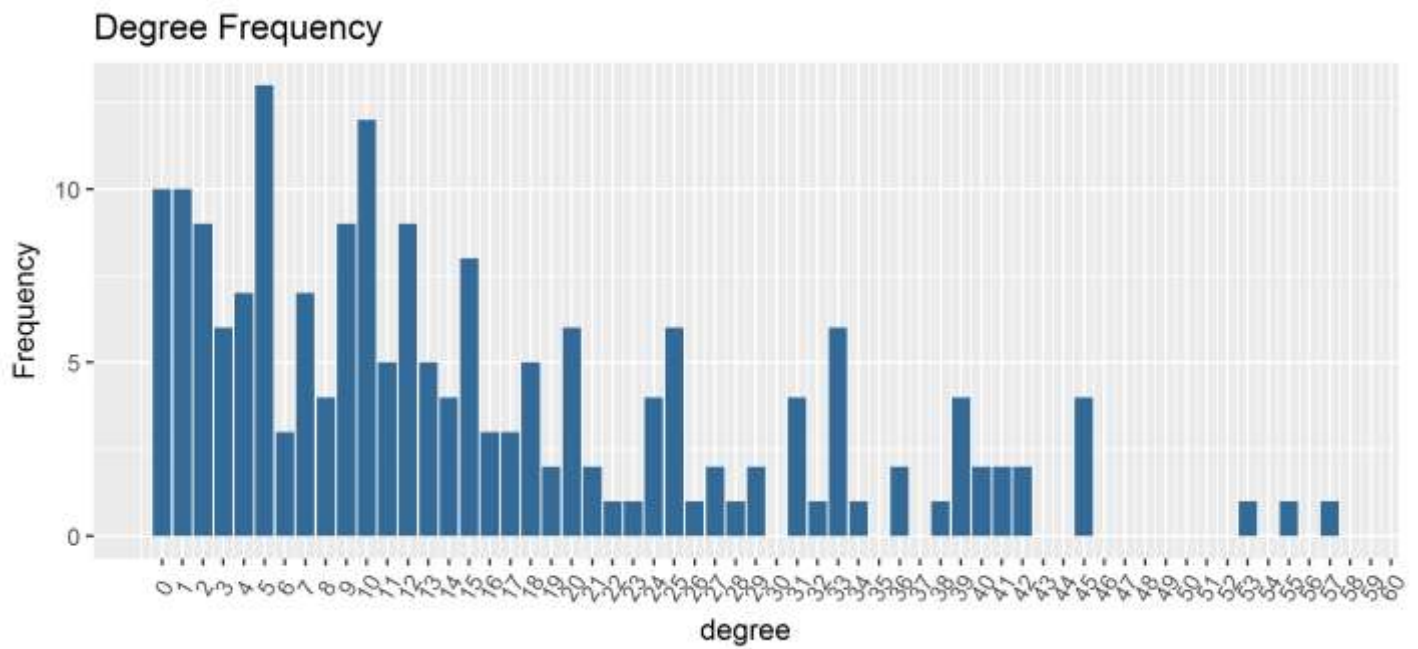


Figure 4.1.0.6 Degree frequency

SJR-H Index

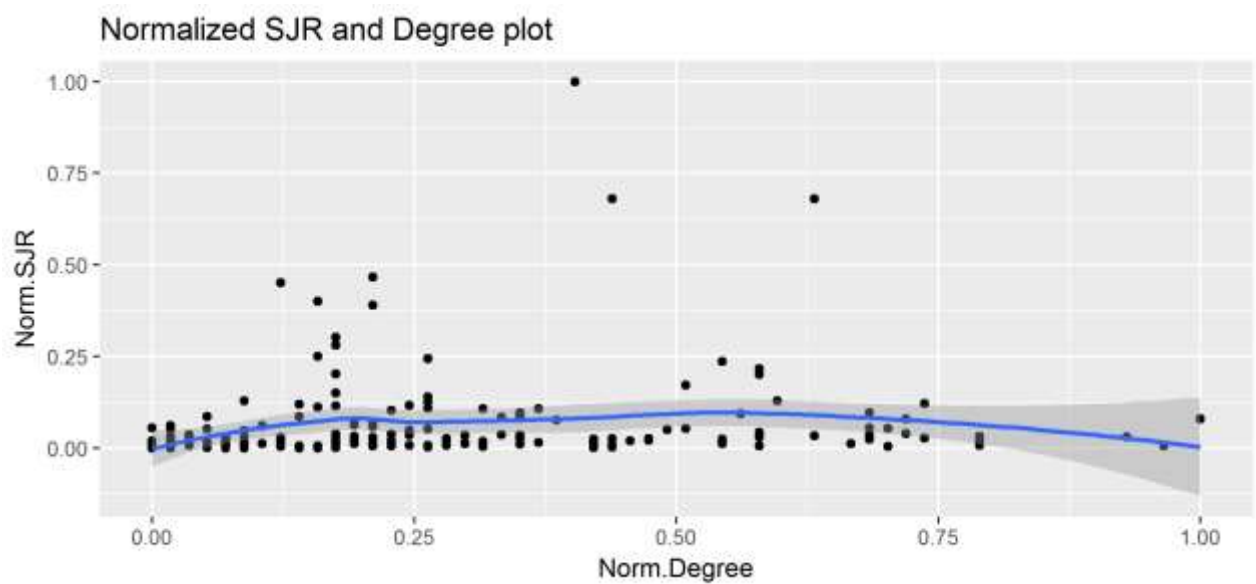


Figure 4.1.0.7 Norm sjr-degree

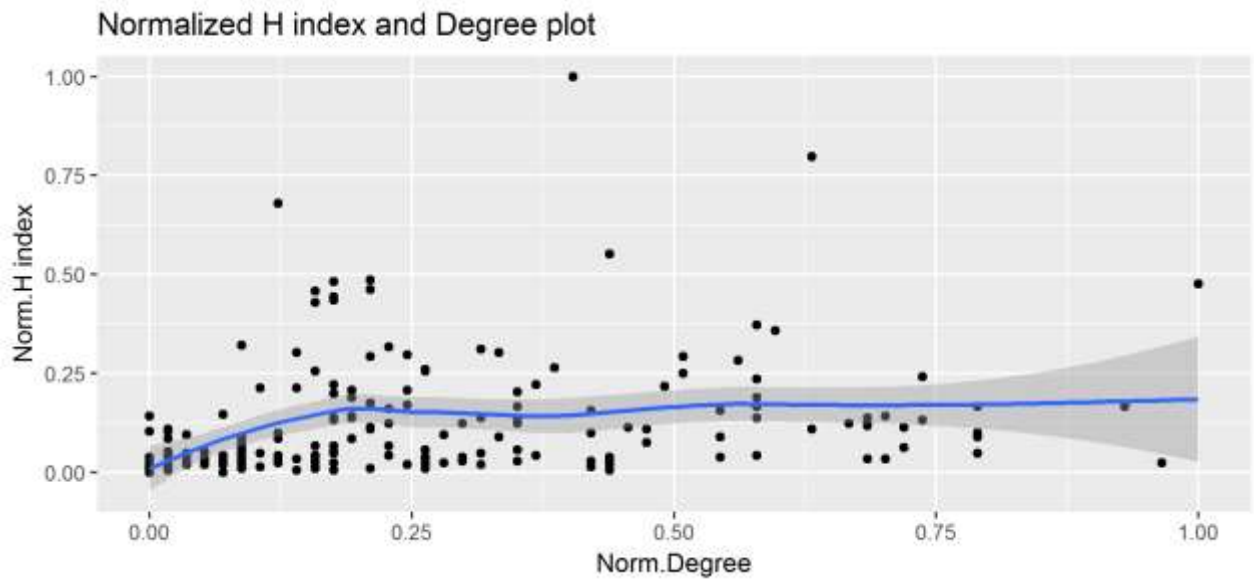


Figure 4.1.0.8 Norm h index-degree

From figures 4.1.7 & 4.1.8 we can see that SJR and H index don't have an effect on the degree. They don't have a linear relationship especially SJR. H index on the other hand for a degree of 0 to 0.20 h index increases until 0.20 and then it's steady for the rest of the observations.

Degrees of Central Component

Frequency

After removing the journals with degree 0 and the two journals with the weak connections we created the frequency diagram. A journal with degree 0 means that it has no connections. From the frequency diagram in figure 2.1 we can see that if we kept the two journals that are weak connected the difference would be that in the sum of the journals with degree of 1 they would be 10 instead of 8. The most frequent degree is 5 and 10 with 13 and 12 journals respectively.

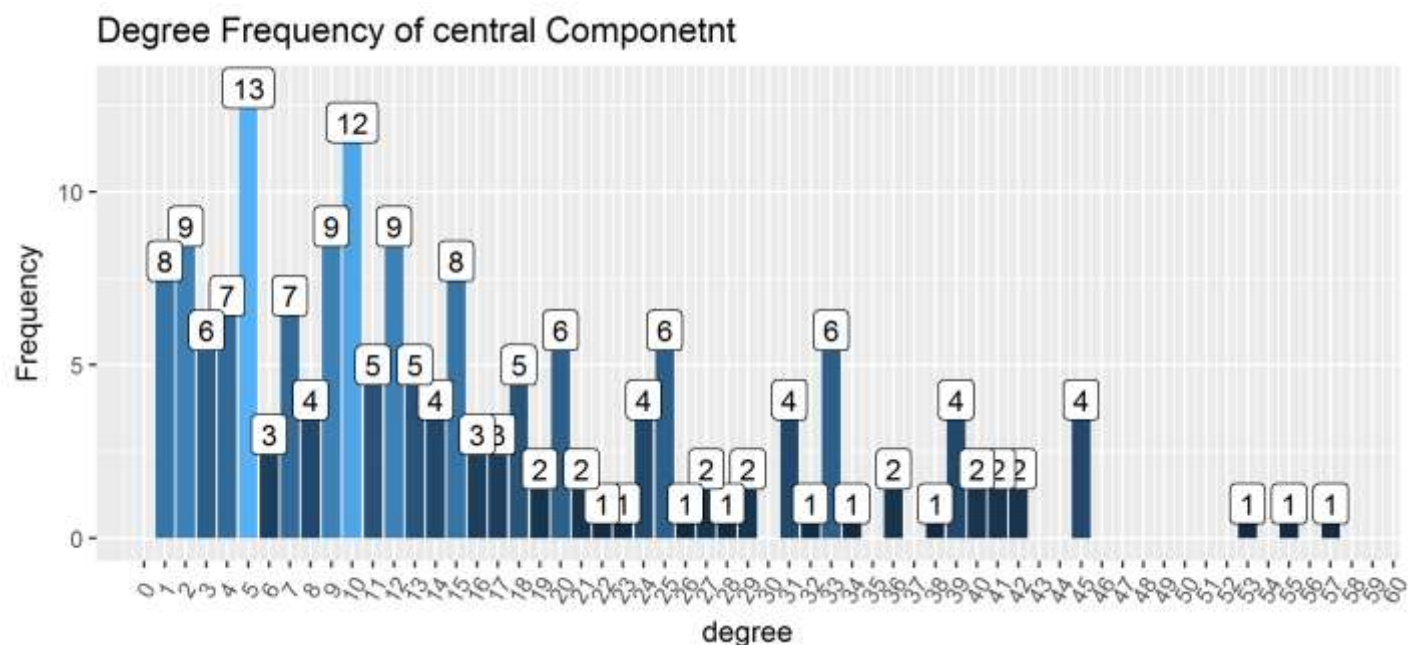


Figure 4.1.0.9 Degree frequency of central component

The top 15 degrees are presented in figure 2.1.

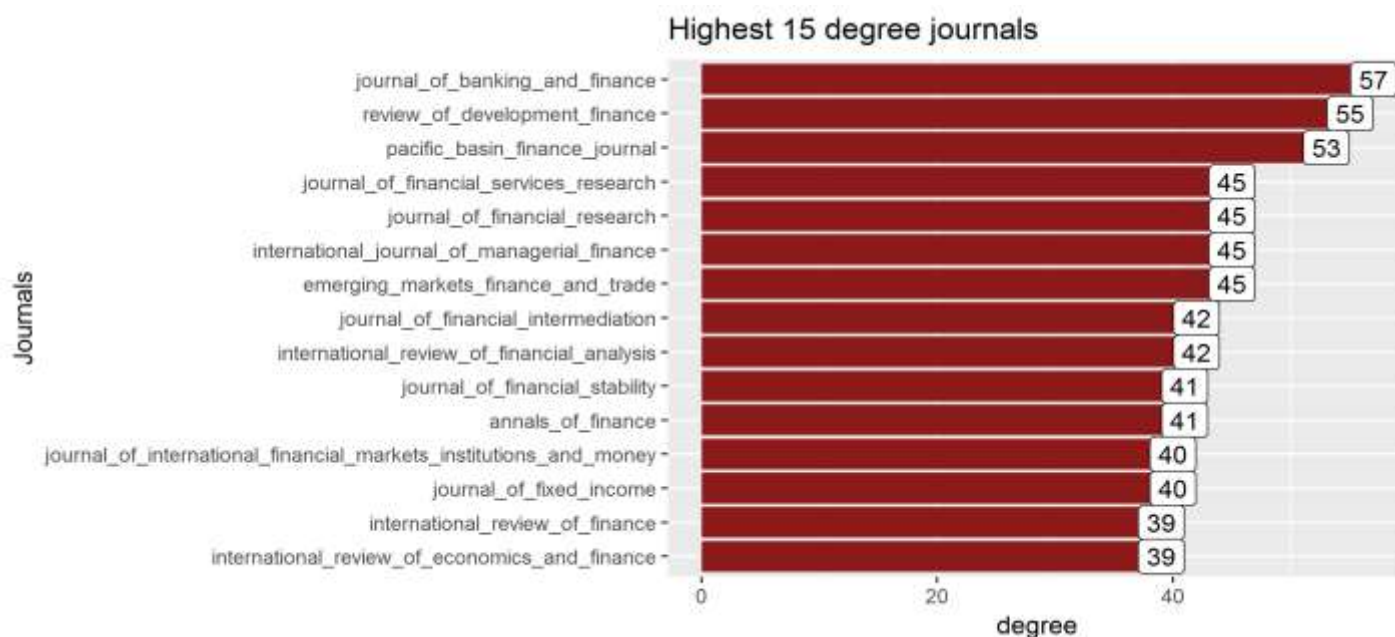


Figure 4.1.0.10 Top 15 degrees

The top three journals are *journal of banking and finance*, *review of development finance* and *pacific basin finance journal* with a degree of 57, 55 and 53 respectively. So *journal of banking and finance* is connected with 57 different journals. Also these three journals are the outliers in the boxplot in figure 2.3.

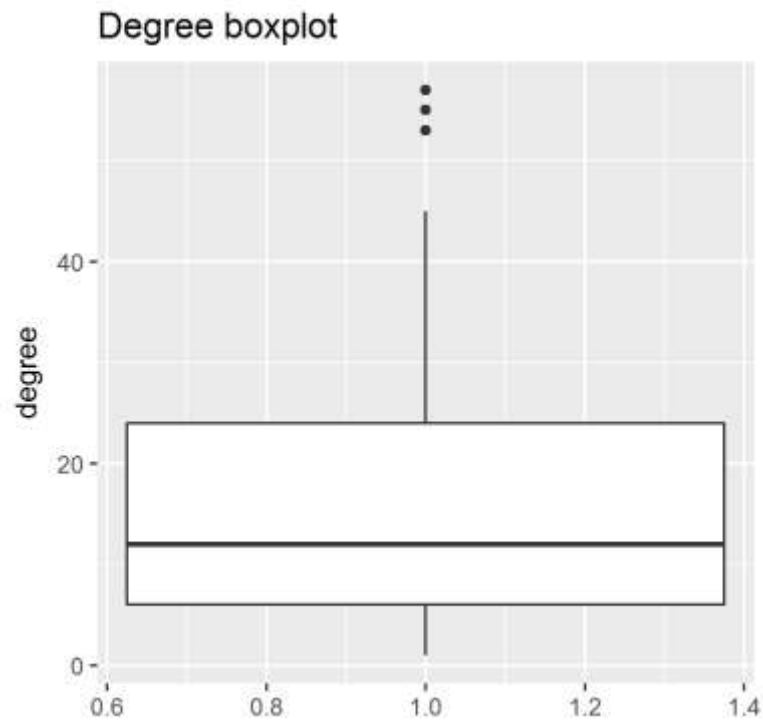


Figure 4.1.0.11 Degree boxplot

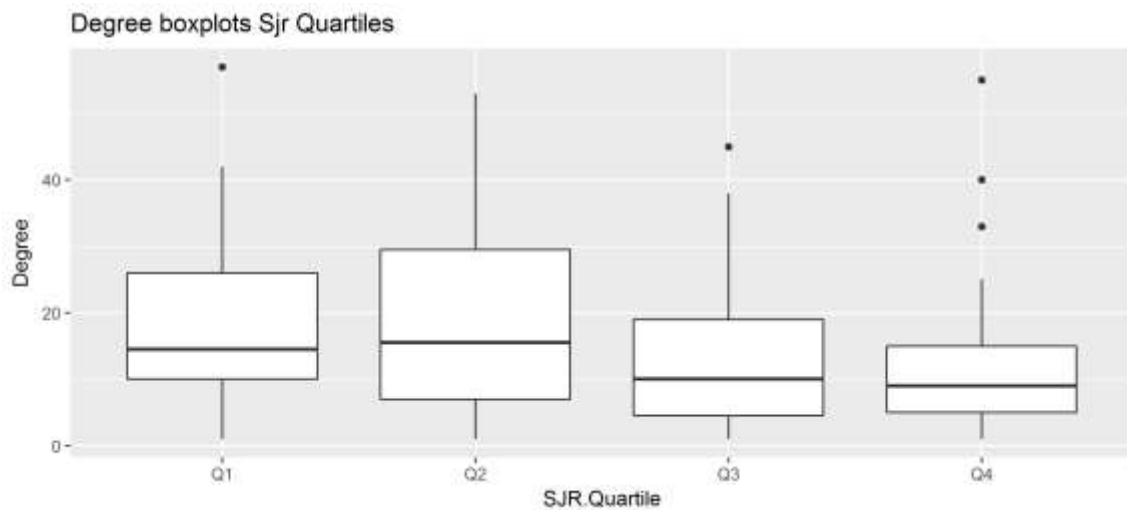


Figure 4.1.0.12 degree sjr boxplot

From the boxplots in Figure 4.1.0.12 we can see that it doesn't matter in which quartile the journals are but the connections they have. In Q4 we observe one of the highest degrees in our network, as an outlier. Then we constructed the total degree in each quartile to see which quartile has the most degrees, figure 4.1.0.13 Q2 has a higher total degree than Q1, it's the first time in our analysis that we see Q2 to be higher in something than Q1.

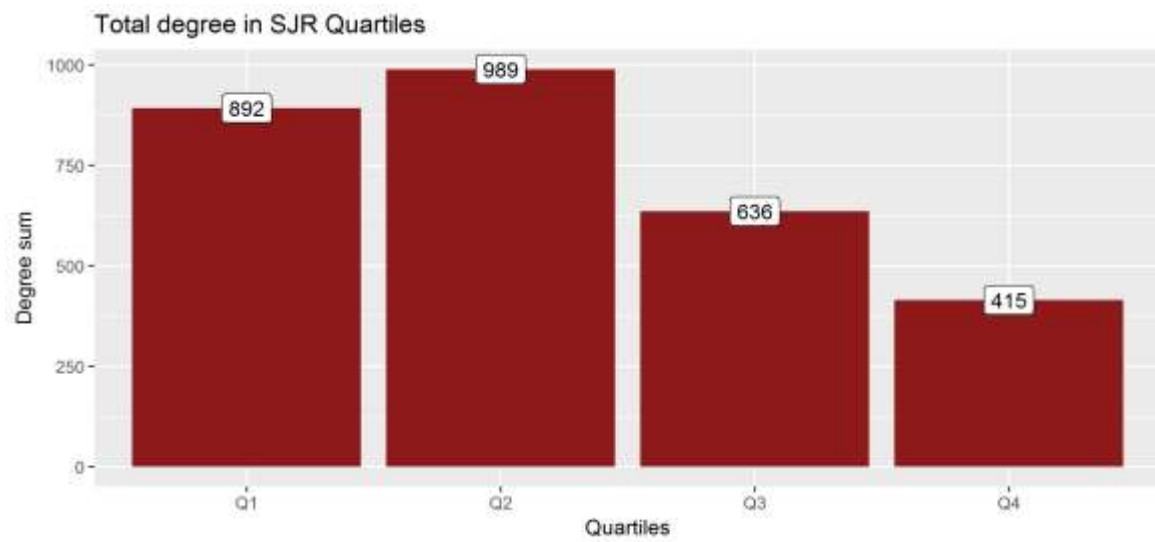


Figure 4.1.0.13 total degree in sjr

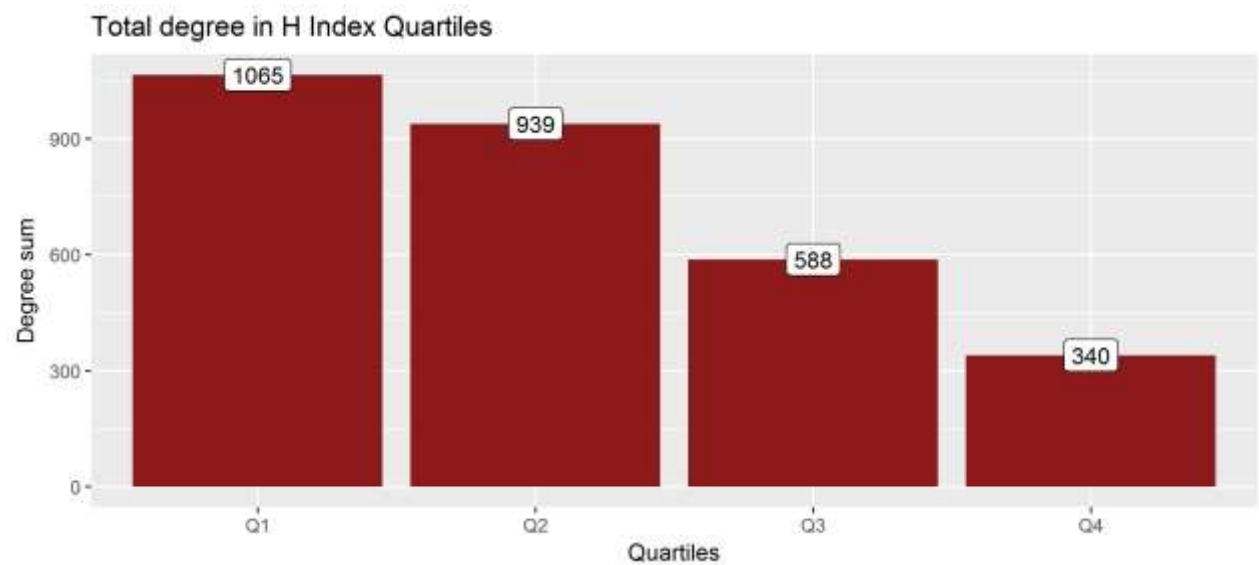


Figure 4.1.0.14 total degree in h index

But when the degree is counted by h index ordering we have a different results.

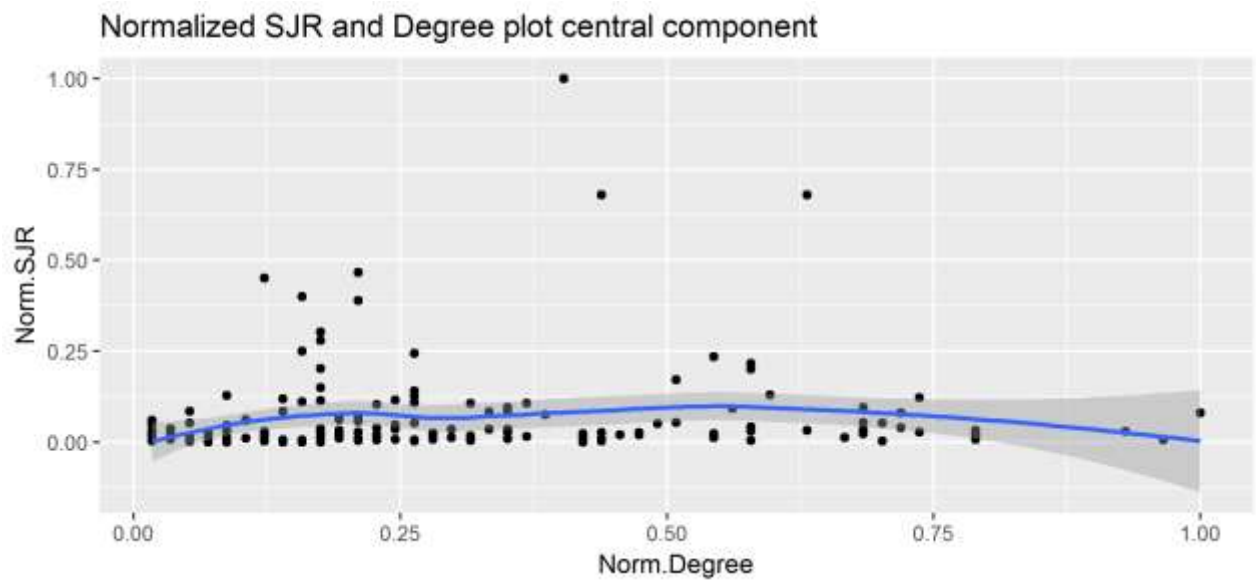


Figure 4.1.0.15 Norm sjr-degree central component

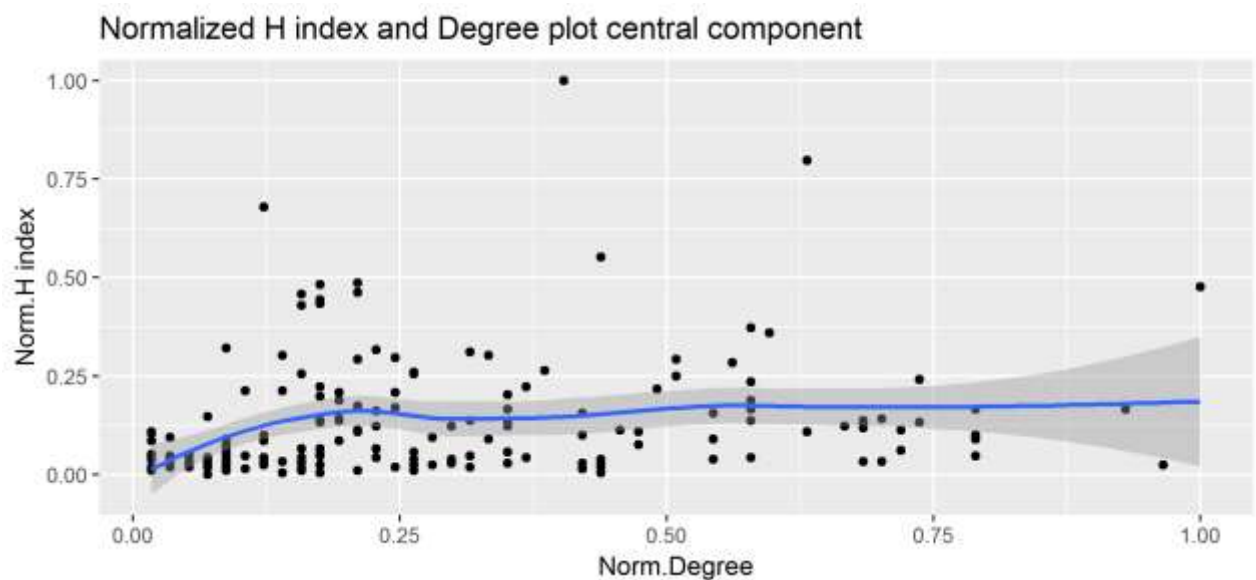


Figure 4.1.0.16 Norm h index-degree central component

As for the central component SJR and H index normalized graphs we have nothing to add, we have the same plots as in overall section.

Sjr-Degree ratio

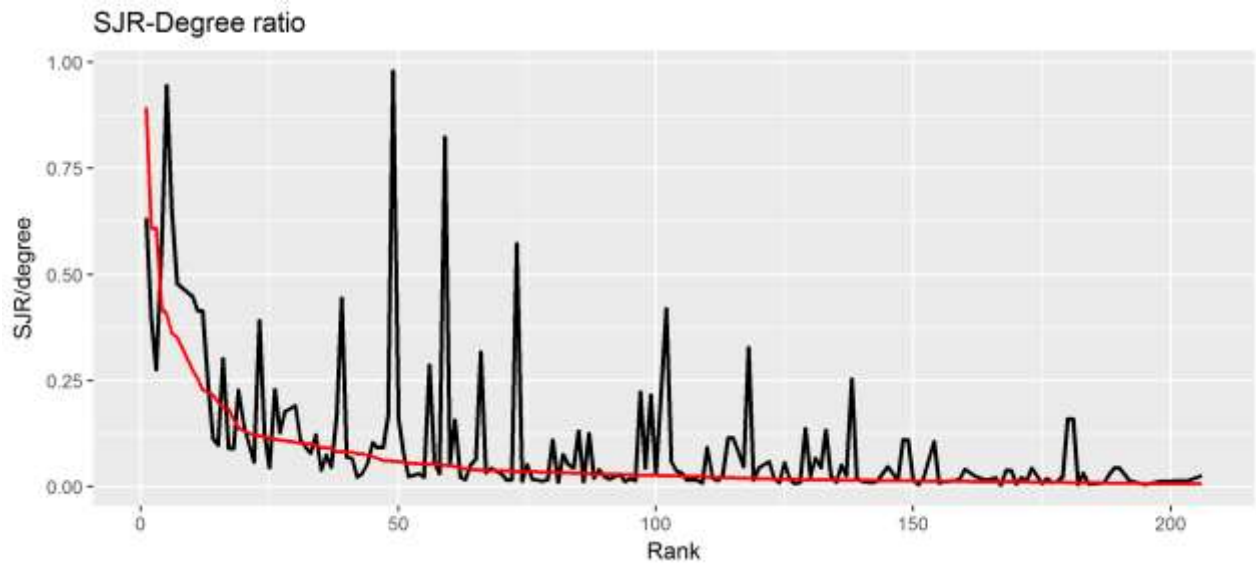


Figure 4.1.0.17 sjr-degree ratio

From Figure 4.1.0.17 it is shown that even if a journal has a very high SJR the degree doesn't follow the same principle. A regression model is fitted and the results say that the degree is its not significant as the p-value is higher than 5%.

```
fit2<-lm(SJR~degree,Giant)
coef(summary(fit2))
```

	Estimate	Std. Error	t value	Pr(> t)
## (Intercept)	0.78738208	0.21683409	3.631265	0.0003685876
## degree	0.01500076	0.01045815	1.434360	0.1532240418

Degree-Editors ratio

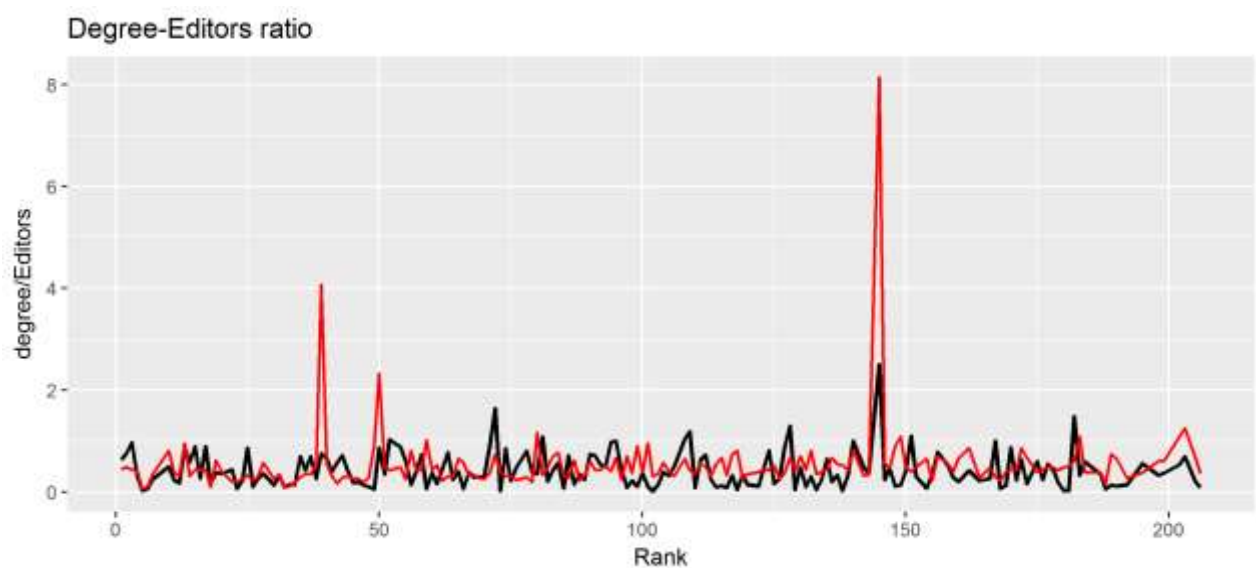


Figure 4.1.0.18 Degree - editors ratio

In figure 4.1.0.18 the degree and editors ratio, the resume of this graph is that the editorial board size doesn't affect so much the connections between journals and the red line shows us the results if we use the mean degree/editors. Here we will insert a regression model.

```
fit<-lm(degree~Editors,Giant)
coef(summary(fit))
```

##		Estimate	Std. Error	t value	Pr(> t)
## (Intercept)		12.90109070	1.61562096	7.985221	1.677248e-13
## Editors		0.07633997	0.02954602	2.583765	1.057503e-02

We see from the results that the editorial board size, coefficient Editors is 0.076 and its statistical significant as the p-value is smaller than 5% (p-value=0.0105)

4.3.3 Modularity

Modularity is another type of “components” but more specific it “measures how well a network decomposes into modular communities.” (Modularity Github). From gephi we have a 0.332 modularity for our network and 18 communities (0:17). The first 7 communities (0,1,2,3,4,5,6) contain the 180 journals that have been analyzed in the degree. It is clear that the modularity categorization is more precise than the components. Apart from community 16, which was expected as it contains two journals with weak connection and they connect to each other only, the rest of the communities are independent, journals with no connections. From table 3.1 we can see the total sjr, h index and degree in each community and from the community tables the first 7 communities.

modularity_class	Count	Percent	T_sjr	T_Hindex	T_degree
0	57	31.67	82.284	2135	1448
1	36	20	26.615	691	618
2	15	8.33	16.473	517	121
3	8	4.44	1.764	62	53
4	39	21.67	42.068	1008	499
5	18	10	10.948	546	152
6	7	3.89	5.559	174	41
7	1		0.89	31	0
8	1		0.397	9	0
9	1		0.206	4	0
10	1		0.197	3	0
11	1		0.192	2	0
12	1		0.15	6	0
13	1		0.145	23	0
14	1		0.113	3	0
15	1		0.103	1	0
16	2		0.203	8	2
17	1		0.101	2	0

Table 28 Modularity

Communities

Community 0

Rank	Journal
1	journal_of_finance
2	review_of_financial_studies
3	journal_of_financial_economics
11	journal_of_monetary_economics
12	journal_of_international_economics
14	review_of_finance
15	journal_of_financial_markets
17	journal_of_financial_and_quantitative_analysis
22	journal_of_money_credit_and_banking
25	journal_of_financial_intermediation
35	international_review_of_finance
37	journal_of_corporate_finance
38	world_bank_economic_review
40	journal_of_international_money_and_finance
41	journal_of_financial_econometrics
42	journal_of_banking_and_finance
43	journal_of_financial_stability
50	international_journal_of_central_banking
52	international_review_of_economics_and_finance
54	journal_of_empirical_finance
55	journal_of_international_financial_markets_institutions_and_money
58	financial_management
71	review_of_financial_economics
72	north_american_journal_of_economics_and_finance
73	journal_of_financial_counseling_and_planning
74	journal_of_financial_services_research
75	journal_of_asian_economics
78	journal_of_financial_research
81	pacific_basin_finance_journal
86	international_review_of_financial_analysis
87	asian_economic_papers
90	international_journal_of_finance_and_economics
91	japan_and_the_world_economy
92	financial_review
95	quarterly_review_of_economics_and_finance
98	world_economy
103	economie_internationale
104	journal_of_the_japanese_and_international_economies
106	finance_research_letters
109	emerging_markets_finance_and_trade
111	international_finance
112	global_finance_journal
125	zbornik_radova_ekonomskog_fakultet_au_rijeci

127	journal_of_multinational_financial_management
137	finance_a_uver
140	financial_markets_and_portfolio_management
142	asia_pacific_journal_of_financial_studies
145	financial_markets_institutions_and_instruments
151	international_journal_of_managerial_finance
156	journal_of_emerging_market_finance
167	review_of_development_finance
175	african_finance_journal
179	journal_of_banking_regulation
184	international_journal_of_banking_accounting_and_finance
198	macroeconomics_and_finance_in_emerging_market_economies
199	risk_governance_and_control_financial_markets_and_institutions
202	jassa

Table 29 Community 0

Community 1

Rank	Journal
13	annual_review_of_financial_economics
16	finance_and_stochastics
20	journal_of_risk_and_uncertainty
28	siam_journal_on_financial_mathematics
31	mathematical_finance
36	journal_of_risk_and_insurance
44	financial_analysts_journal
49	astin_bulletin
57	mathematics_and_financial_economics
61	international_review_of_environmental_and_resource_economics
63	annals_of_finance
67	international_journal_of_theoretical_and_applied_finance
76	quantitative_finance
80	applied_mathematical_finance
82	geneva_papers_on_risk_and_insurance_issues_and_practice
84	journal_of_futures_markets
88	annals_of_economics_and_finance
94	review_of_quantitative_finance_and_accounting
96	journal_of_portfolio_management
97	international_journal_of_health_care_finance_and_economics
99	investment_analysts_journal
105	geneva_risk_and_insurance_review
116	risk_management
124	studies_in_economics_and_finance
128	review_of_derivatives_research
148	zeitschrift_für_die_gesamte_versicherungswissenschaft
150	journal_of_behavioral_finance
152	journal_of_wealth_management

155	investment_management_and_financial_innovations
162	risk_management_and_insurance_review
166	asia_pacific_financial_markets
170	journal_of_derivatives
172	algorithmic_finance
177	journal_of_alternative_investments
182	journal_of_fixed_income
195	international_journal_of_business

Table 30 Community 1

Community 2

Rank	Journal
5	journal_of_management
23	longe_range_planning
26	journal_of_international_management
32	journal_of_world_business
46	international_business_review
48	china_economic_review
100	research_in_international_business_and_finance
129	journal_of_financial_services_marketing
131	prague_economic_papers
133	international_journal_of_sports_marketing_and_sponsorship
138	international_journal_of_sport_finance
143	review_of_pacific_basin_financial_markets_and_policies
149	universia_business_review
160	spanish_review_of_financial_economics
178	journal_of_behavioral_and_experimental_finance

Table 31 Community 2

Community 3

Rank	Journal
101	public_budgeting_and_finance
115	applied_econometrics_and_international_development
130	journal_of_economics_and_finance
158	international_journal_of_monetary_economics_and_finance
180	academy_of_accounting_and_financial_studies_journal
190	international_research_journal_of_finance_and_economics
192	journal_of_business_valuation_and_economic_loss_analysis
203	banking_and_finance_review

Table 32 Community 3

Community 4

Rank	Journal
4	journal_of_accounting_and_economics
6	family_business_review
7	journal_of_accounting_research
10	accounting_review
18	contemporary_accounting_research
24	management_accounting_research
33	auditing
39	foundations_and_trends_in_accounting
47	critical_perspectives_on_accounting
51	venture_capital
56	journal_of_the_american_taxation_association
62	journal_of_business_finance_and_accounting
64	international_journal_of_accounting_information_systems
69	accounting_forum
70	international_journal_of_accounting
79	accounting_and_finance
93	journal_of_accounting_auditing_and_finance
102	journal_of_revenue_and_pricing_management
108	journal_of_international_financial_management_and_accounting
113	journal_of_international_accounting_auditing_and_taxation
114	financial_history_review
119	accounting_in_europe
120	international_journal_of_digital_accounting_research
123	asian_review_of_accounting
134	accounting_perspectives
135	accounting_research_journal
139	china_journal_of_accounting_research
146	research_in_accounting_regulation
147	asia_pacific_journal_of_accounting_and_economics
159	afro_asian_journal_of_finance_and_accounting
164	revista_espanola_de_financiacion_y_contabilidad
168	journal_of_public_budgeting_accounting_and_financial_management
169	review_of_accounting_and_finance
173	asian_academy_of_management_journal_of_accounting_and_finance
183	international_journal_of_disclosure_and_governance
187	international_journal_of_accounting_auditing_and_performance_evaluation
188	international_journal_of_revenue_management
205	journal_of_private_equity
206	australasian_accounting_business_and_finance_journal

Table 33 Community 4

Community 5

Rank	Journal
19	journal_of_public_economics
30	european_economic_review
34	games_and_economic_behavior
60	international_tax_and_public_finance
65	national_tax_journal
68	economics_letters
83	fiscal_studies
89	journal_of_public_economic_theory
117	public_finance_review
118	wseas_transactions_on_business_and_economics
126	journal_of_pension_economics_and_finance
132	ejournal_of_tax_research
136	finanzarchiv
154	journal_of_internet_banking_and_commerce
171	economia_politica
176	decisions_in_economics_and_finance
181	international_journal_of_business_and_society
189	hacienda_publica_espanola

Table 34 Community 5

Community 6

Rank	Journal
27	real_estate_economics
45	journal_of_real_estate_finance_and_economics
59	american_law_and_economics_review
66	journal_of_corporate_real_estate
85	journal_of_european_real_estate_research
110	international_review_of_law_and_economics
122	journal_of_property_investment_and_finance

Table 35 Community 6

These journals represent the 93.75% of our journals. The charts below will show us the relationship between SJR and H index with each community. Also from table 3.1 we can see in the Percent column the percentage of journals in each community of the central component.

SJR-H Index Degree relationship

The charts below show the percentages of SJR Quartile and H index Quartiles is in the j (0,1,2,3,4,5,6) community and the count in each quartile. The main feature is that as the community shrinks the percentage shrinks and also in community 3 and 6, Q1 and Q4 don't exist respectively for SJR and for H index in community 3 Q1 don't exist.

SJR

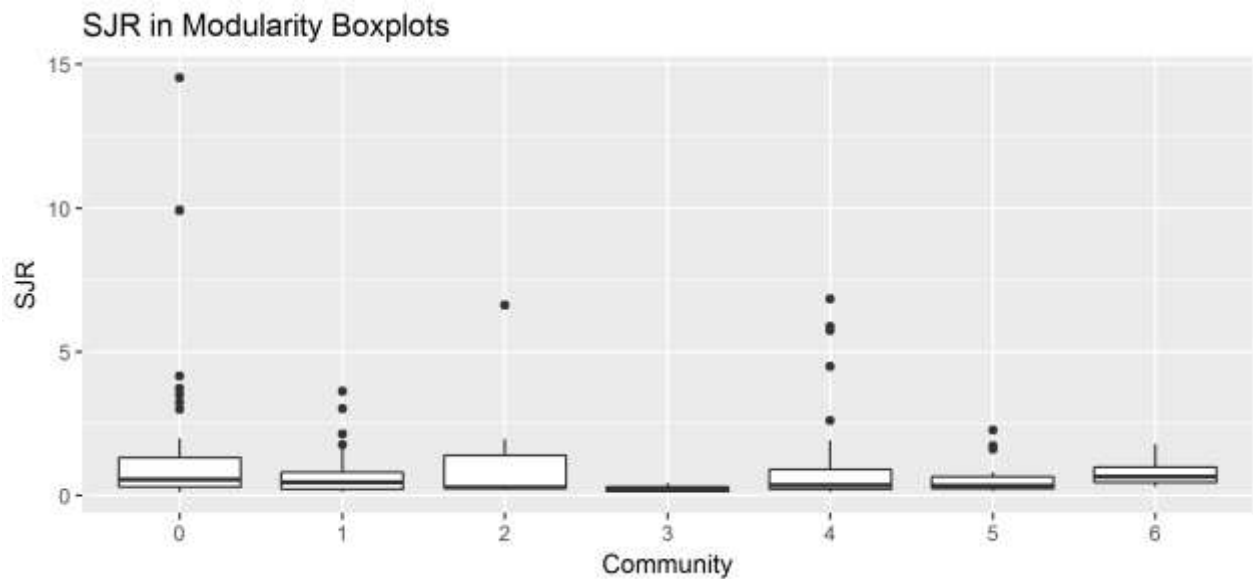


Figure 4.3.0.1 Sjr in modularity boxplots

From figure 4.3.0.2 we see that SJR in each community is allocated very strange. Community 0 which has the most journals has the most outliers and apart from community 3 and 6 all the others contain outliers.

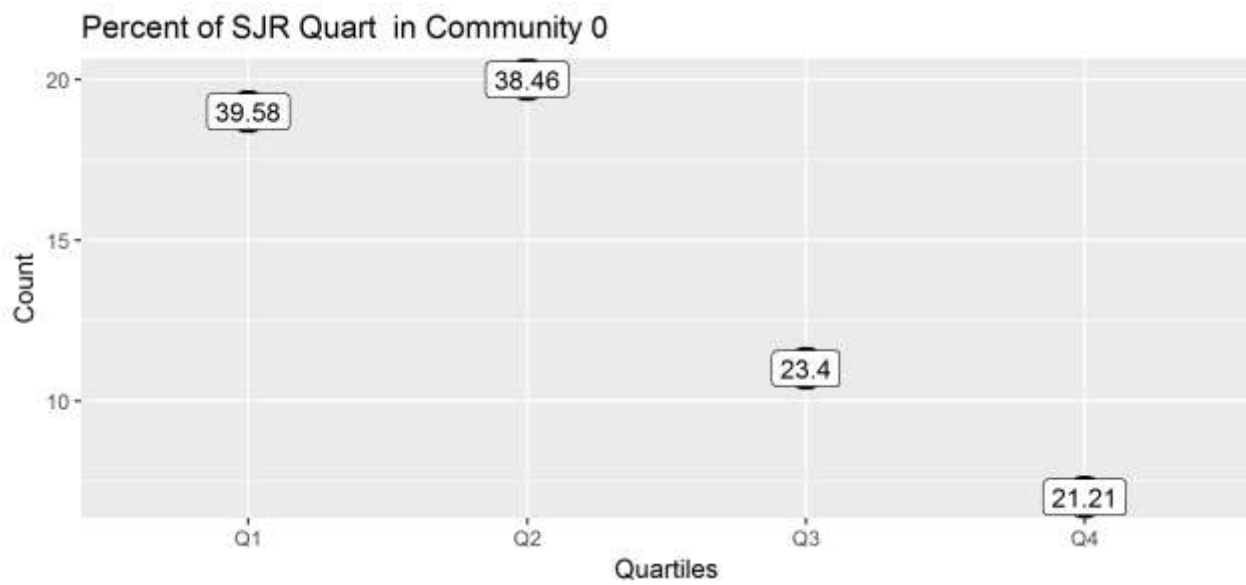


Figure 4.3.0.3 Percent of sjr quart. in comm 0

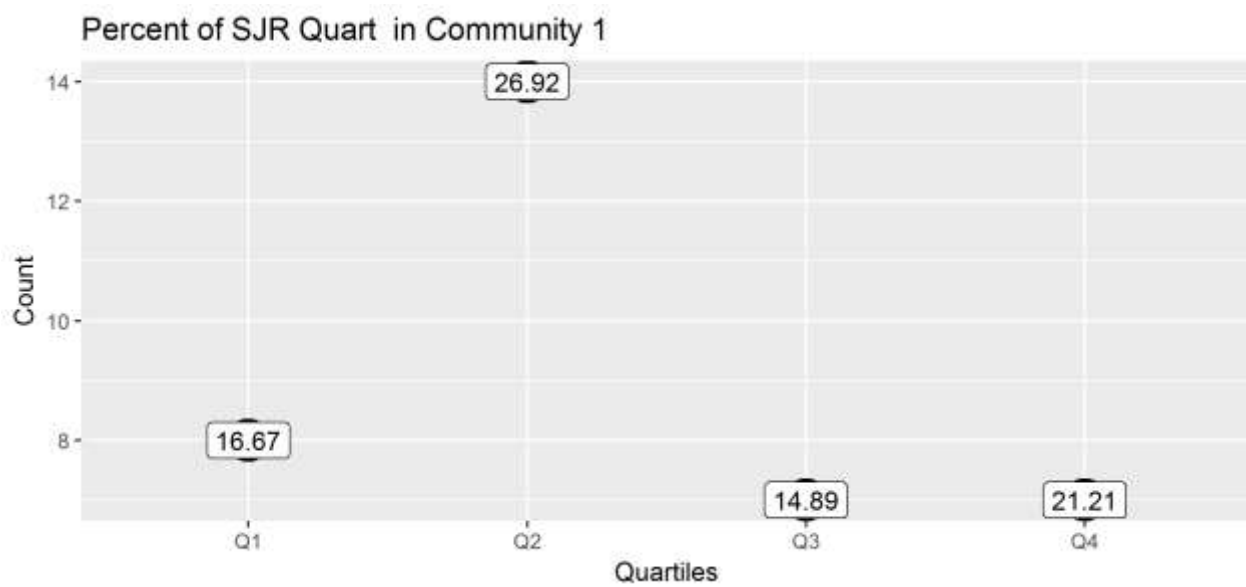


Figure 4.3.0.4 Percent of sjr quart. in comm 1

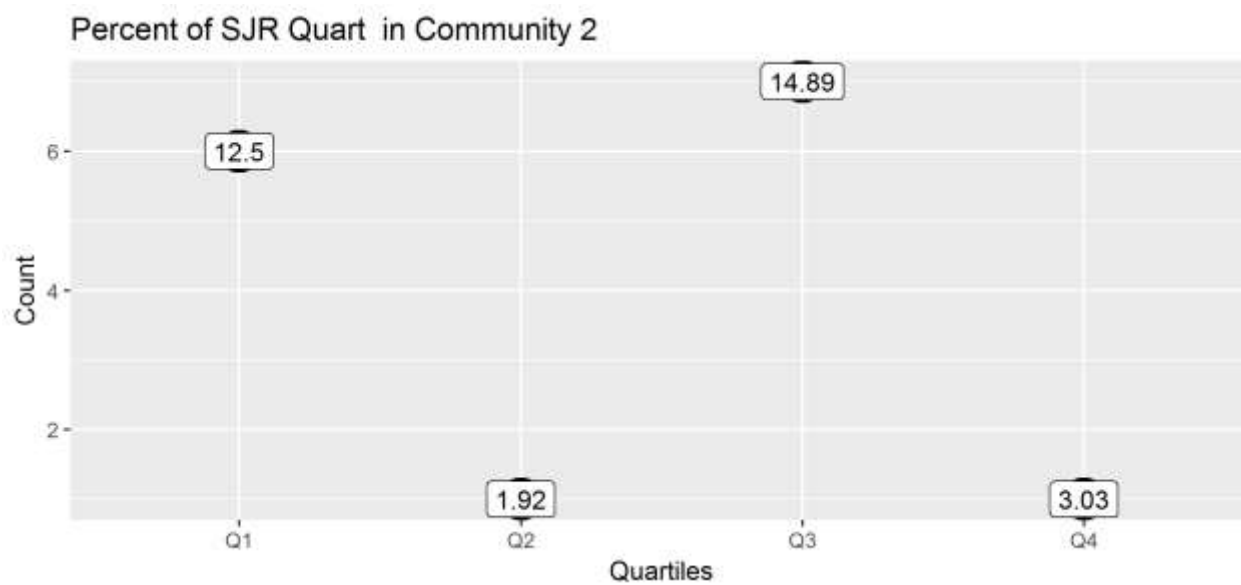


Figure 4.3.0.5 Percent of sjr quart. in comm 2

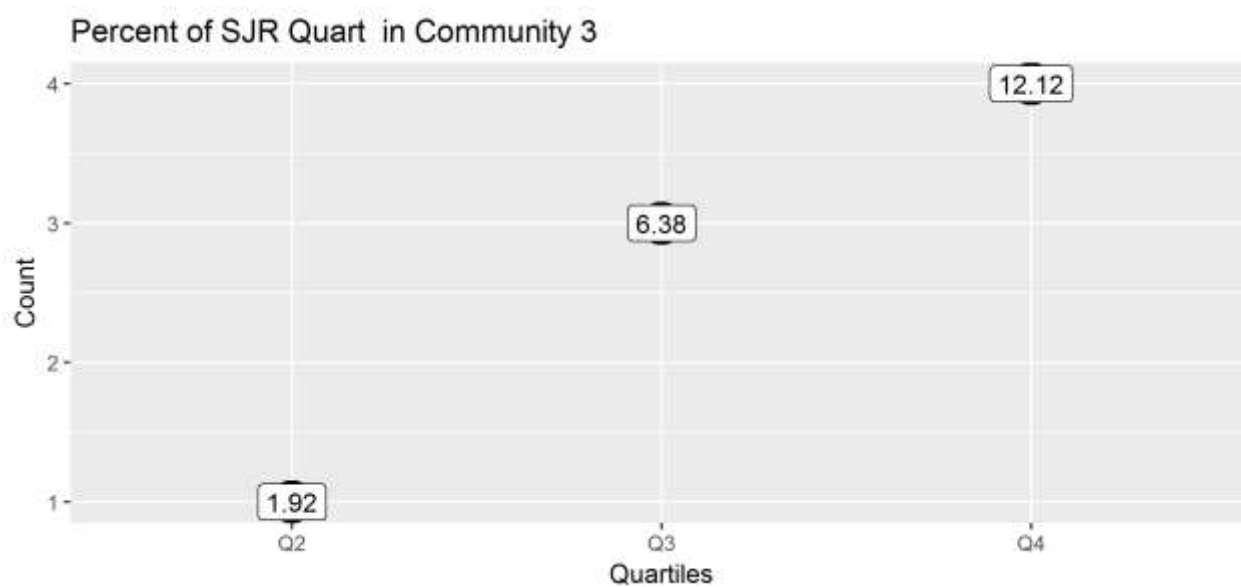


Figure 4.3.0.6 Percent of sjr quart. in comm 3

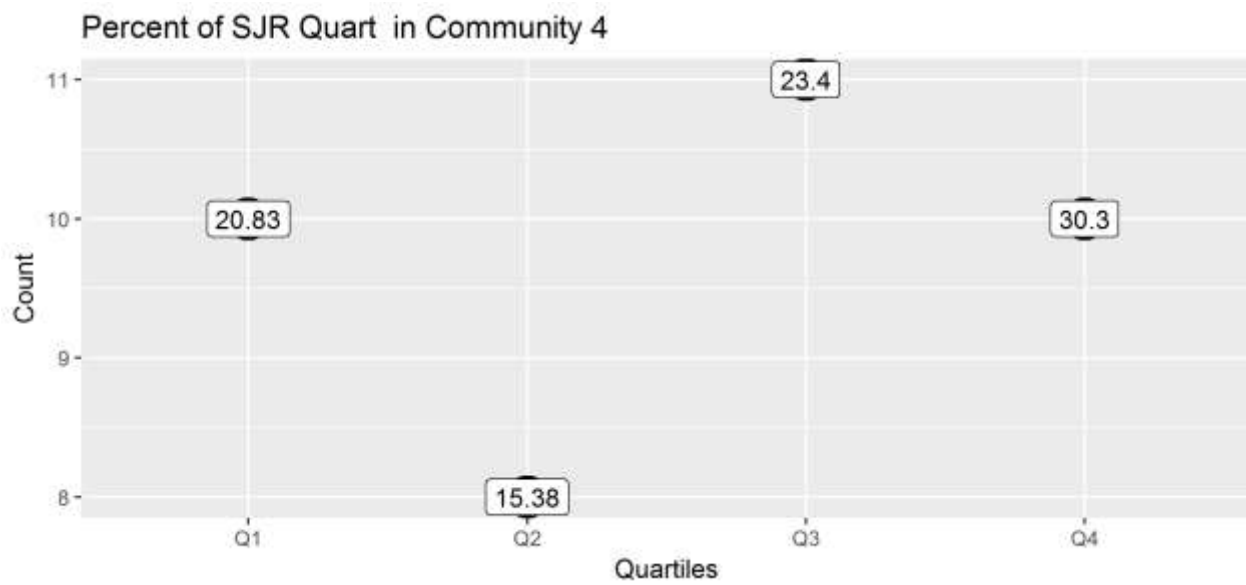


Figure 4.3.0.7 Percent of sjr quart. in comm 4

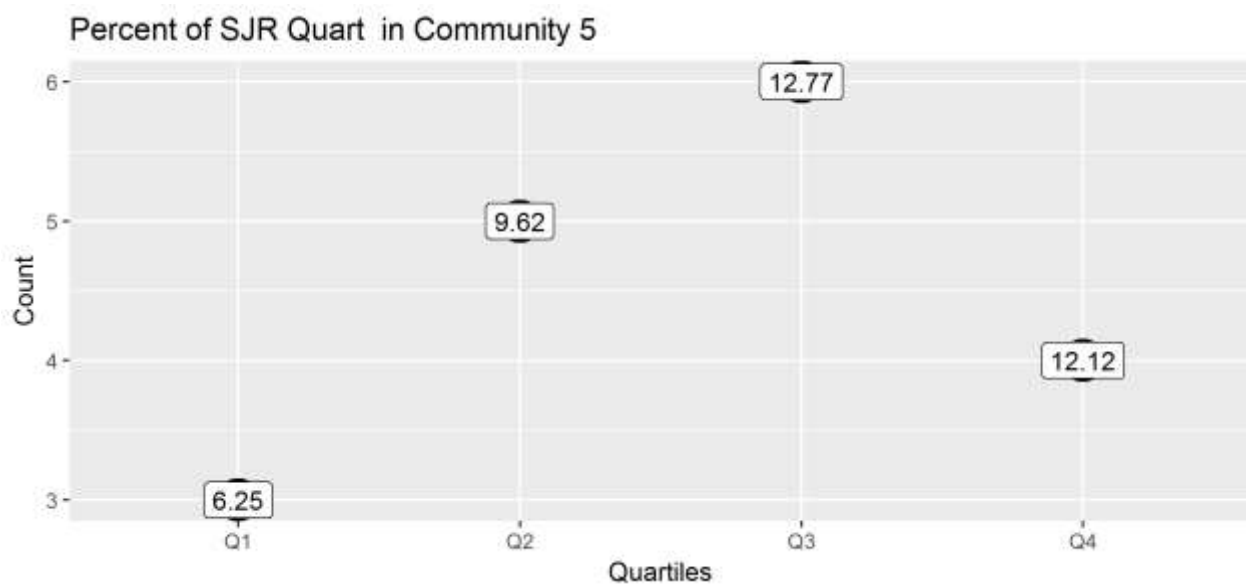


Figure 4.3.0.8 Percent of sjr quart. in comm 5

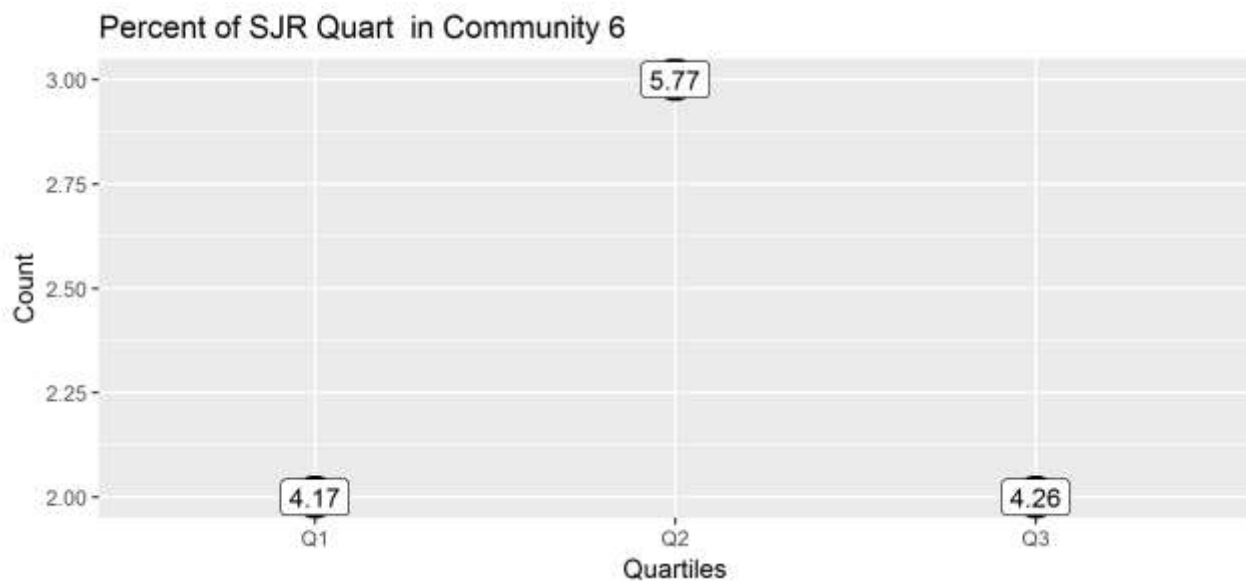


Figure 4.3.0.9 Percent of sjr quart. in comm 6

H index

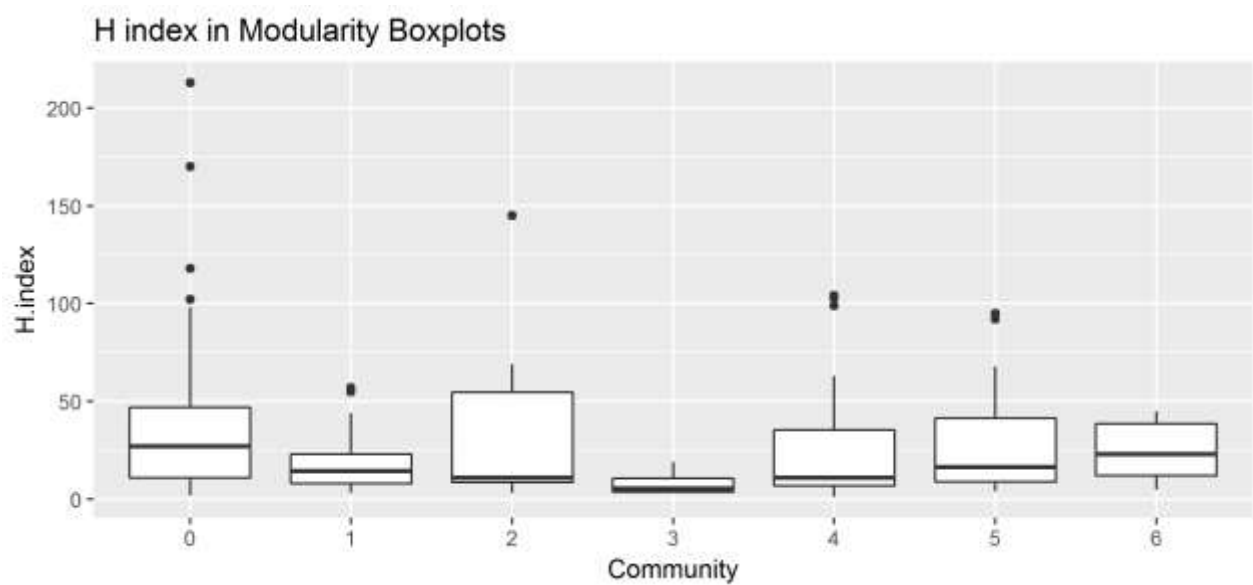


Figure 4.3.0.10 H index in modularity boxplots

In figure 4.3.0.28 we see the same thing as in figure 4.3.0.20 but the variance is much higher and the outliers are not so many in each community.

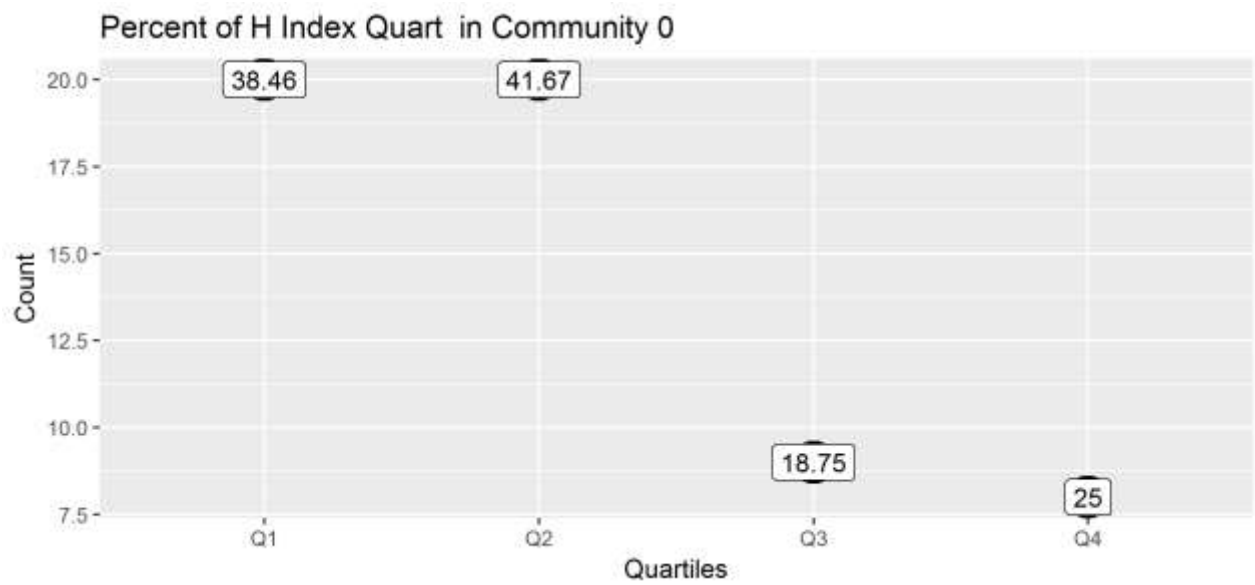


Figure 4.3.0.11 Percent of h index quart. in comm 0

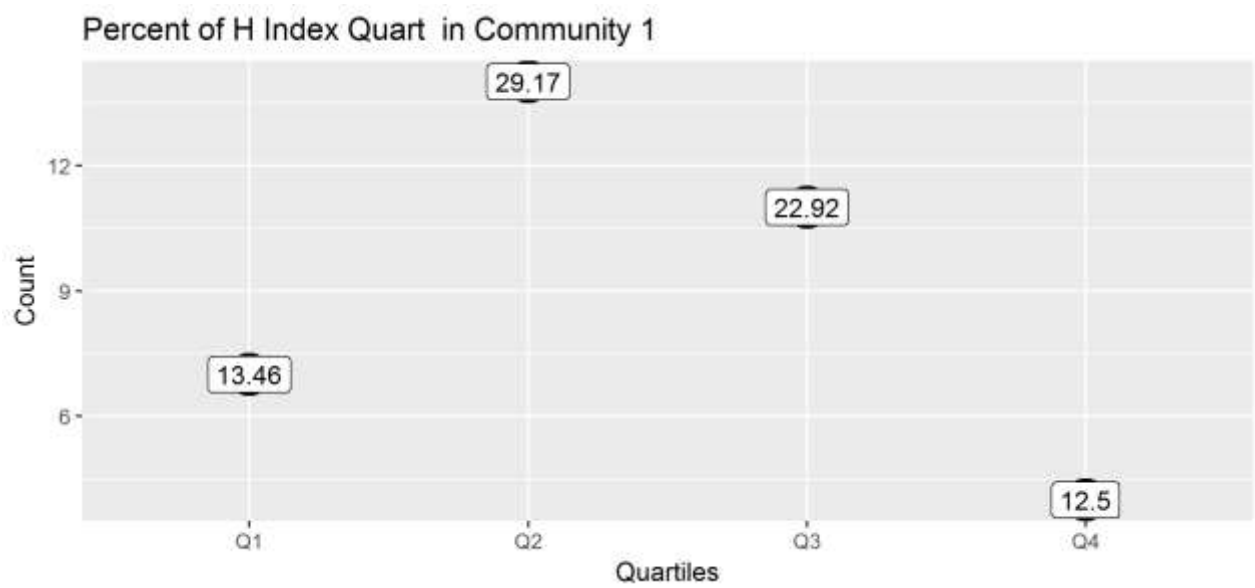


Figure 4.3.0.12 Percent of h index quart. in comm 1

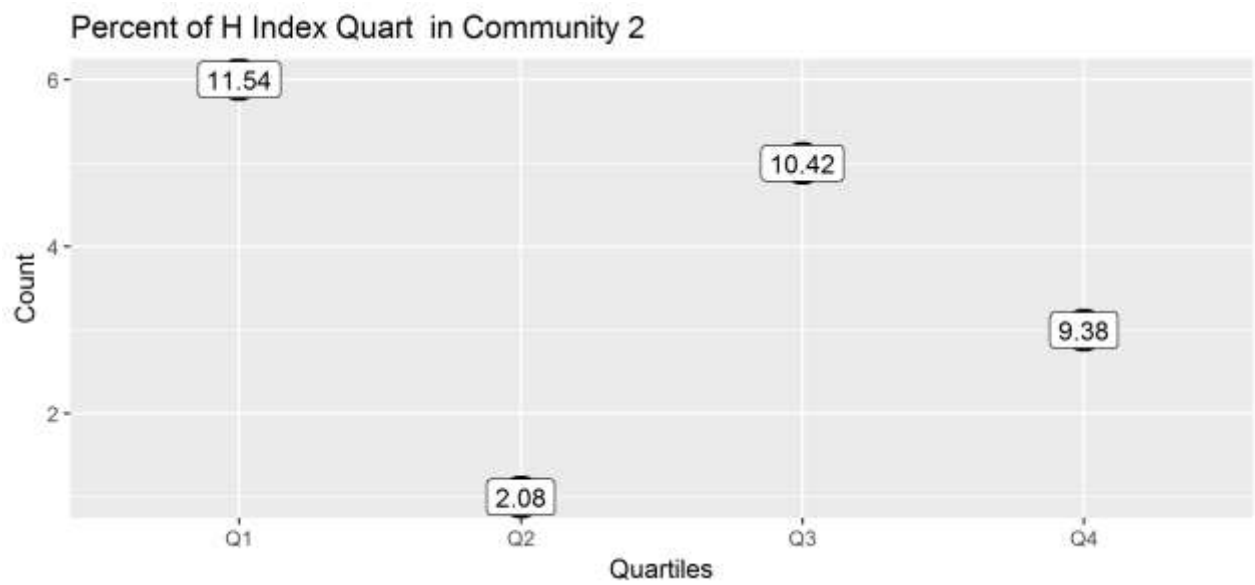


Figure 4.3.0.13 Percent of h index quart. in comm 2

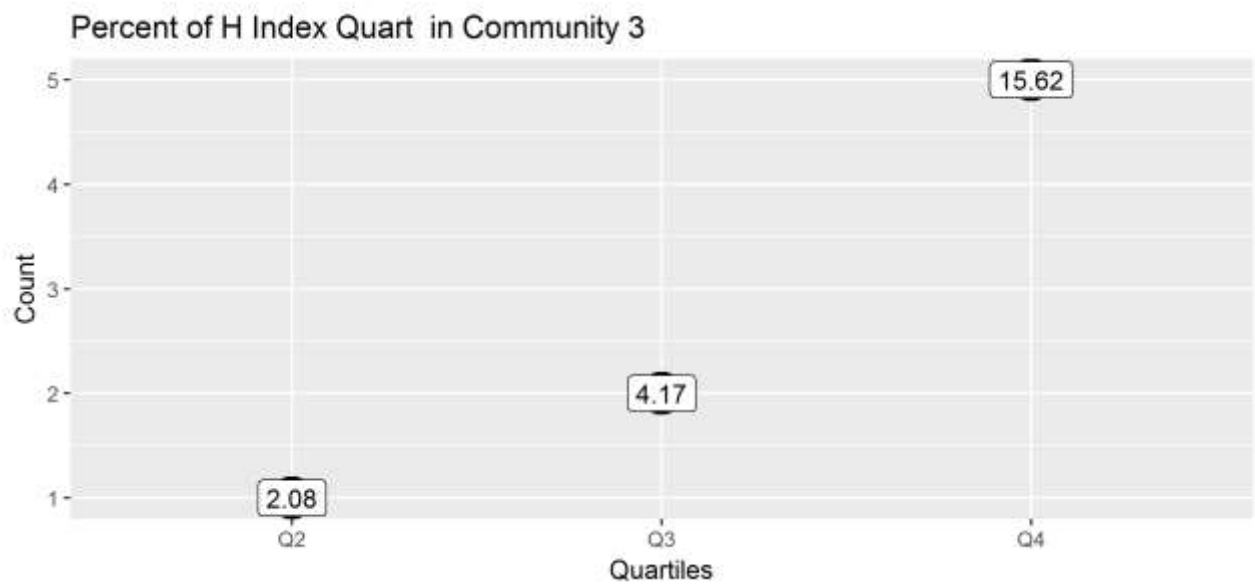


Figure 4.3.0.14 Percent of h index quart. in comm 3

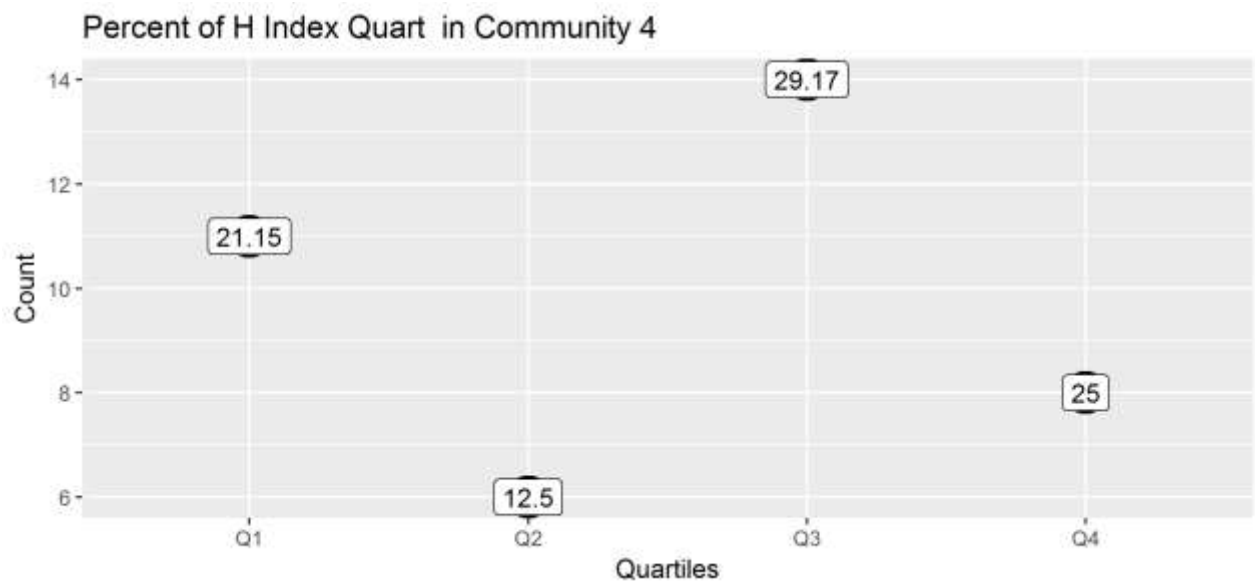


Figure 4.3.0.15 Percent of h index quart. in comm 4

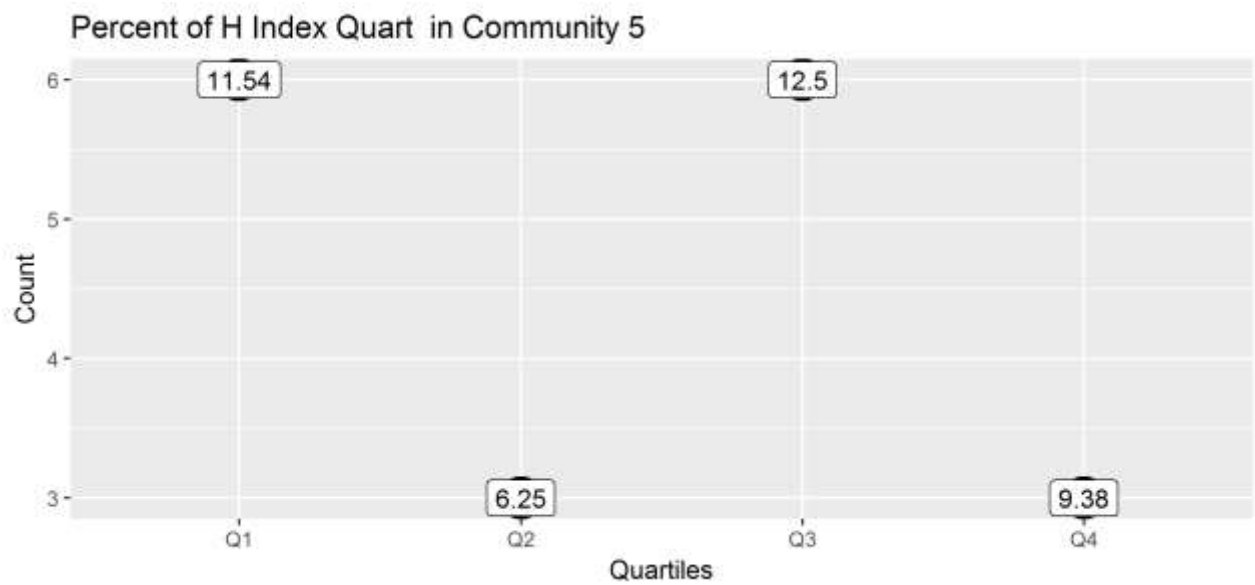


Figure 4.3.0.16 Percent of h index quart. in comm 5

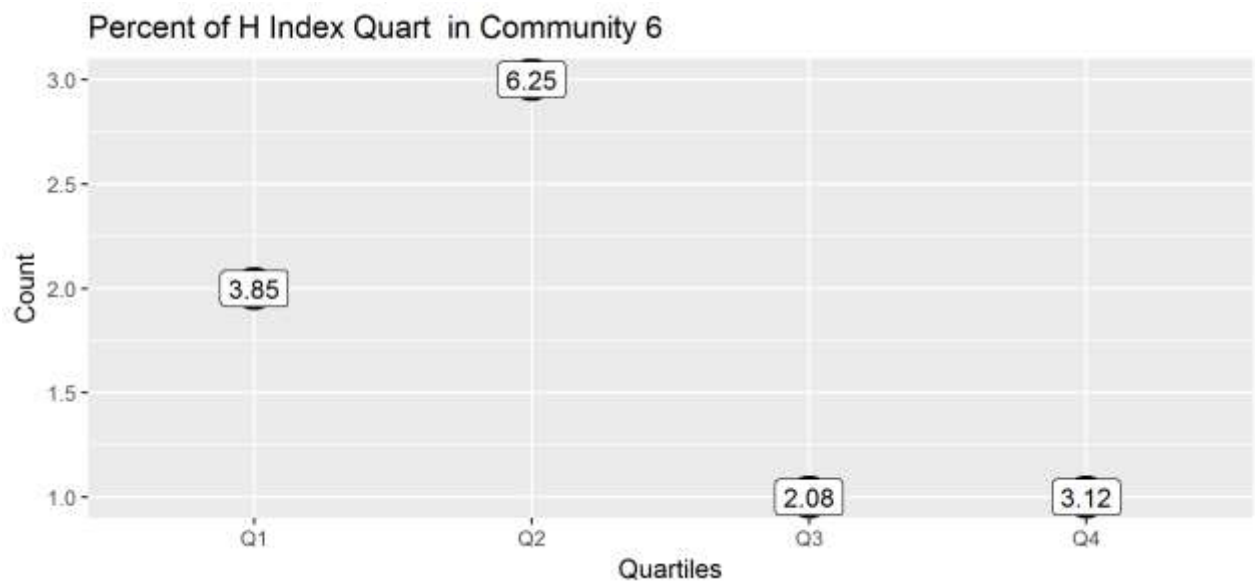


Figure 4.3.0.17 Percent of h index quart. in comm 6

Also in figure 3.1 we present all communities to have a clear view for the SJR.

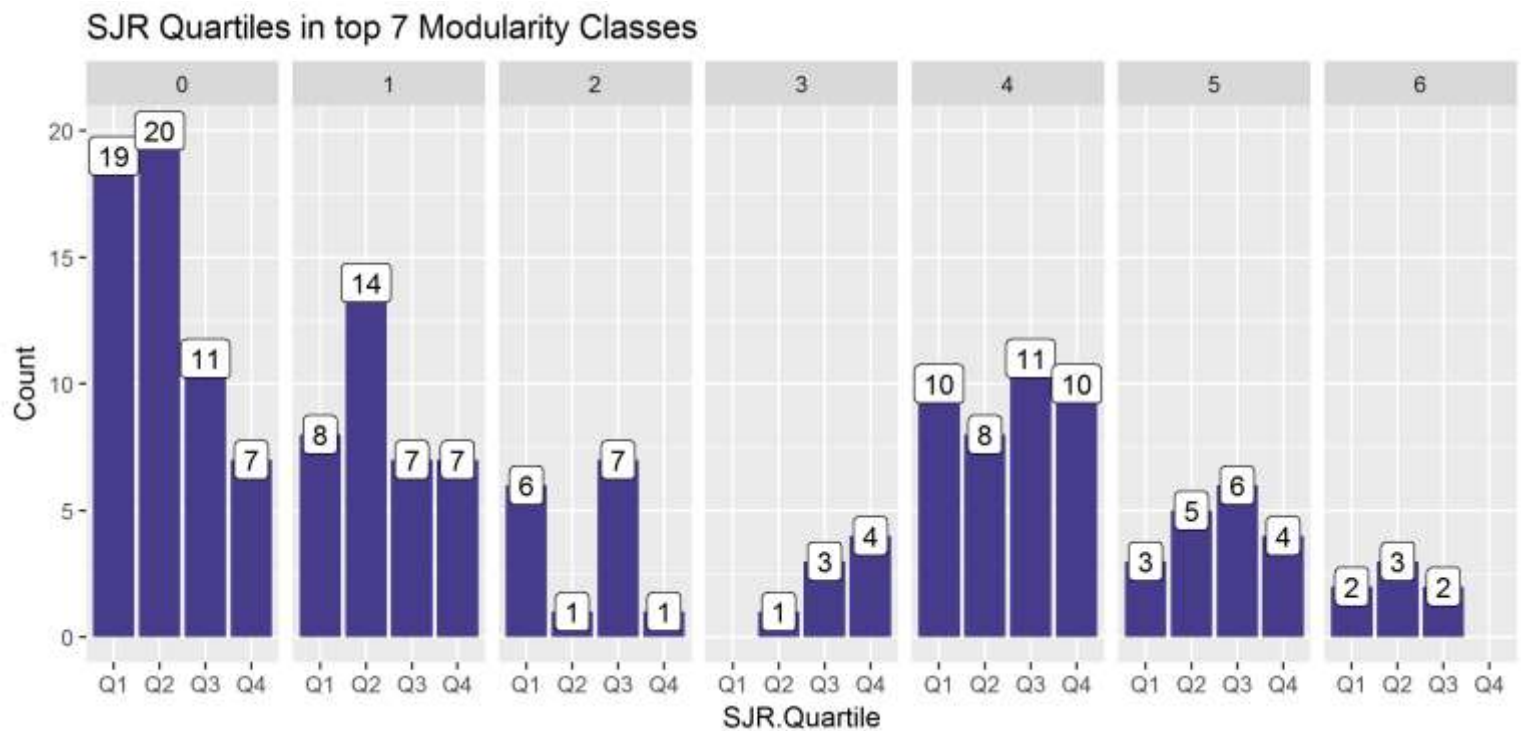


Figure 4.3.0.18 Sjr quart in top 7 modularity classes

In figure 4.3.0.36 we have the 7 communities that contain 180 journals from the giant component. We can see that in each community the different quartiles allocations and in community 3 and 6, Q1 and Q4 are missing respectively. From communities 0,1 and 6, the journals are from Q2 whilst 2 and 4 are from Q1. In community 2 and 5 we see that Q3 has the most journals.

Degree

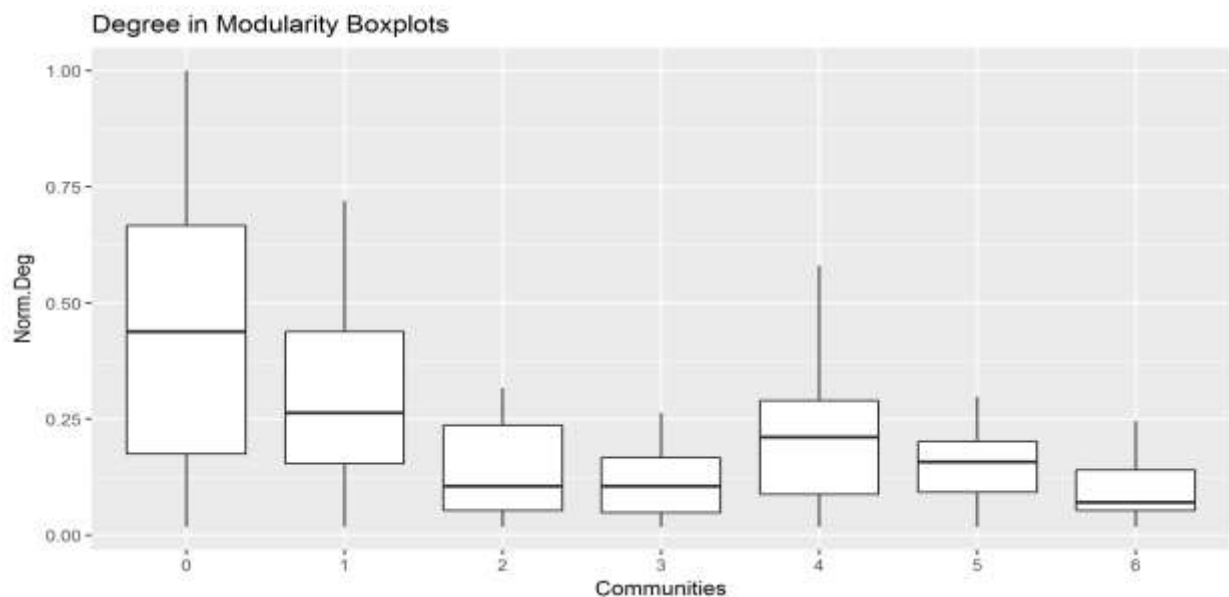


Figure 4.3.0.19 degree in modularity boxplots

From fig 4.3.0.37 we can see that the community 0 has the highest degrees overall next follows community 1 and community 4. Communities 2,3,5 and 6 are moreover similar.

Modularity Sjr(*1000), H index & degree line graph

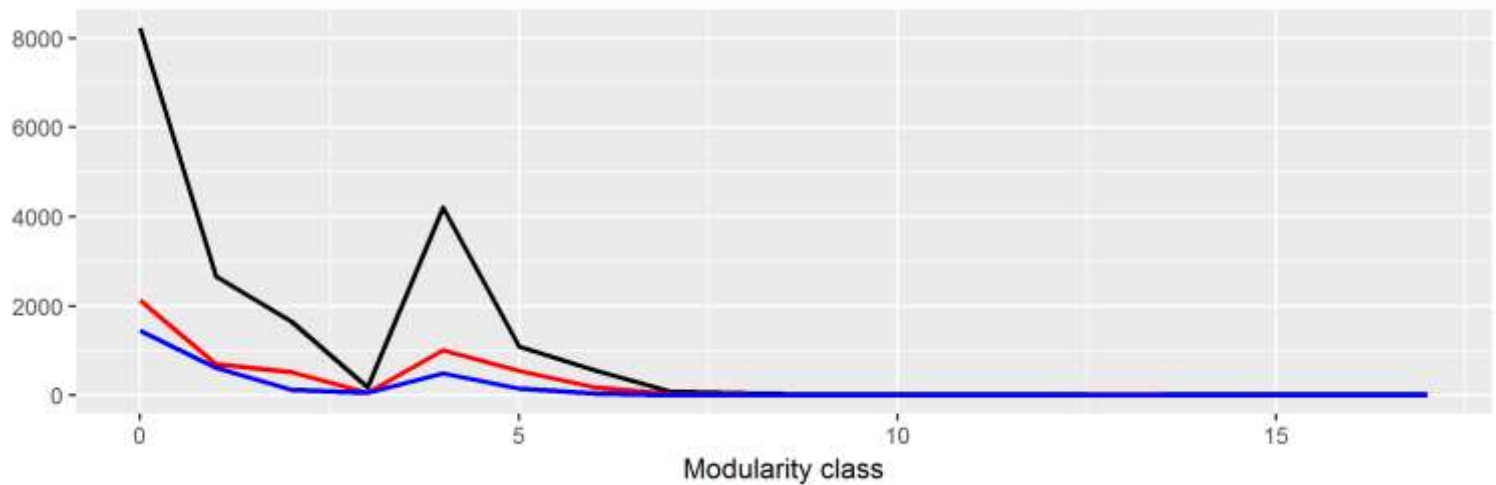


Figure 4.3.0.20 Sjr, h index & degree in modularity classes

Sjr is multiplied by 1000 so it would appear in same measures for the graph and we can see if the follow the same path and as we see they do but with a different slope.

4.3.4 Density or Connectance

A complete graph has a density of 1 and a totally uncomplete graph has a density of 0 [56]. A complete graph means when all vertices are connected to each other. Our network density result was 0.08 for our undirected network, which means that it has a low density. Density describes the possibility of connections in a network either the connection exist or not. So in our occasion the density of 0.08 tells us that the percentage of people in our editorial boards who each other is very small due to the possible relationships.

4.3.5 Clustering (Clustering coefficients)

“Clustering coefficient measures the average probability that two neighbors of a vertex are themselves neighbors. They measure the density of triangles.”[56]. The network's average coefficient is 0.417 and it has 14700 triangles. Triangle is a group of 3, and it's the fastest route. So in this network we have 14700 triangles, 14700 pairs of three journals and the average density of them is 0.417. Firstly an examination about the triangles takes place and then the clustering.

Triangles

In figure 4.5.0.39 we can see the frequency diagram of the triangles. We created clusters of 10 and it is obvious that the most triangles are between 0 and 10.

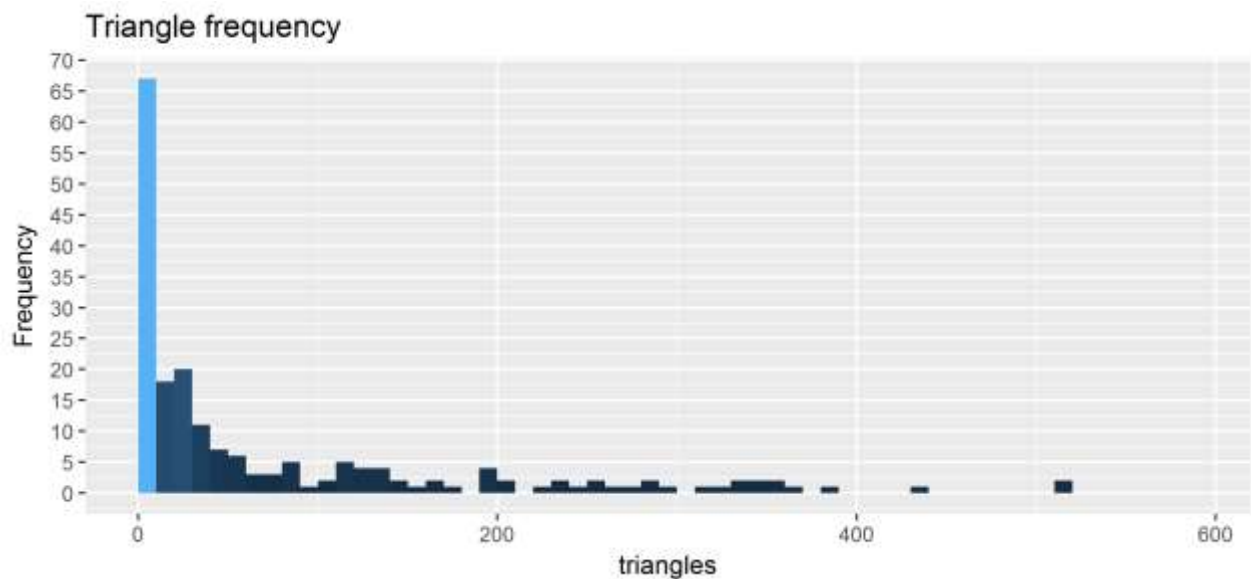


Figure 4.5.0.21 Triangle frequency

Secondly the examination is focused between the relation with SJR, H Index, Modularity and Degree. A for each measure a scatterplot is made to see their linear relationship and for SJR and H index boxplots are created to visualize the allocation. For all the figures the data have been normalized.

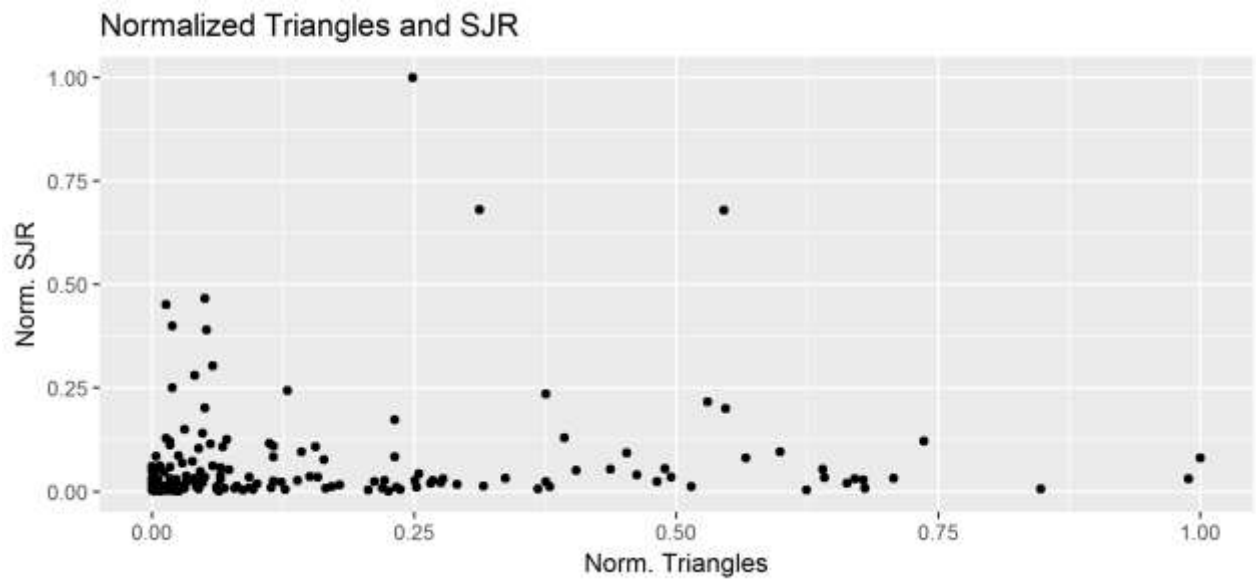


Figure 4.5.0.22 Norm Triangles & Sjr

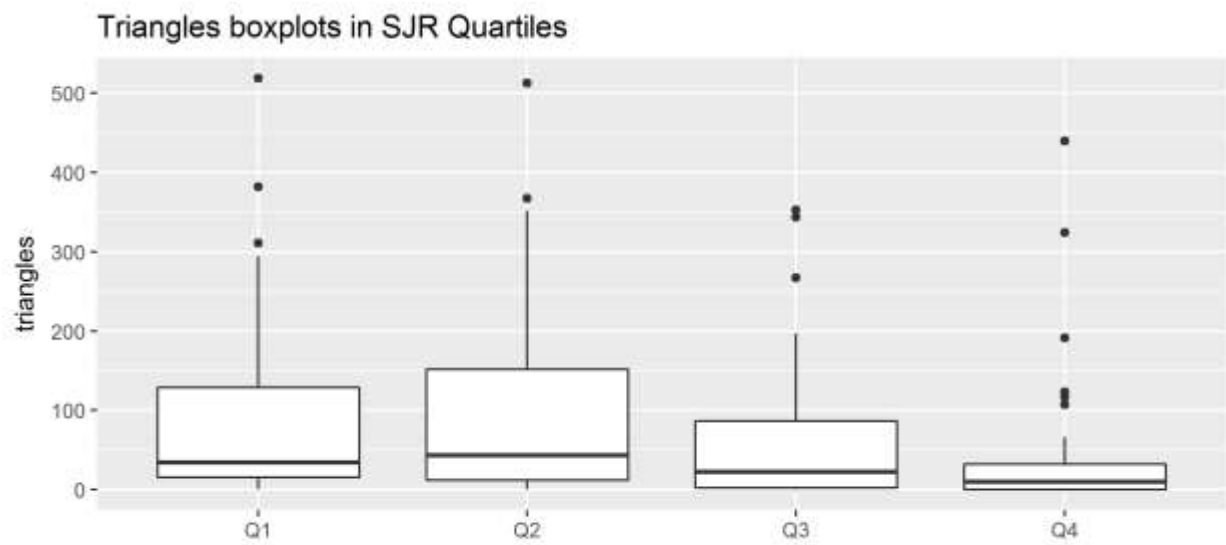


Figure 4.5.0.23 Triangles boxplots in sjr quart.

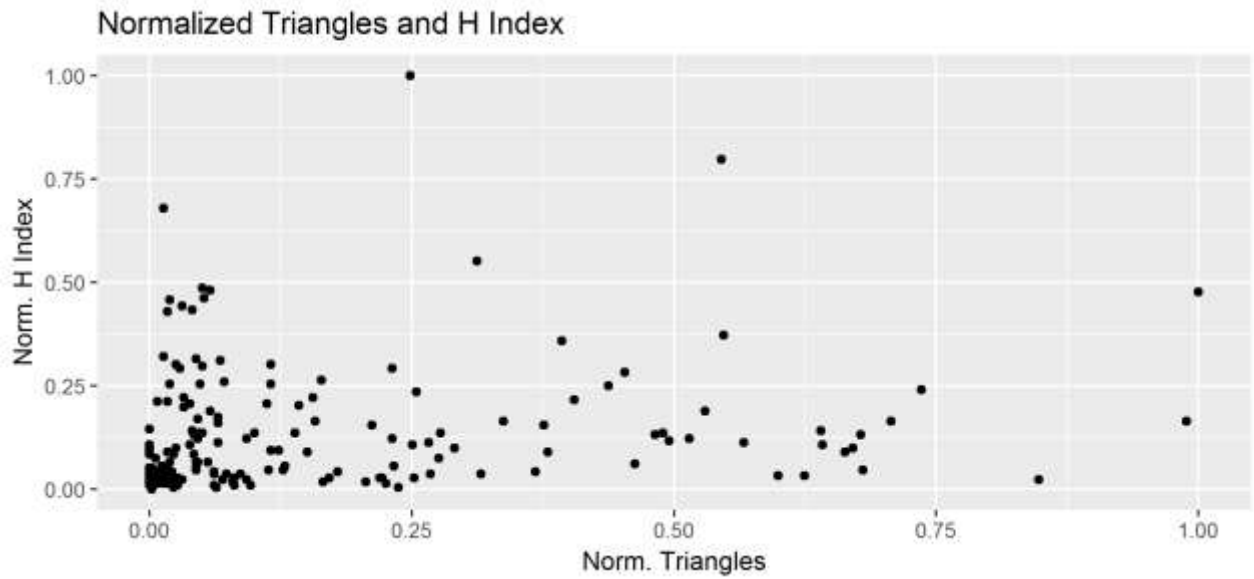


Figure 4.5.0.24 Norm Triangles & H index

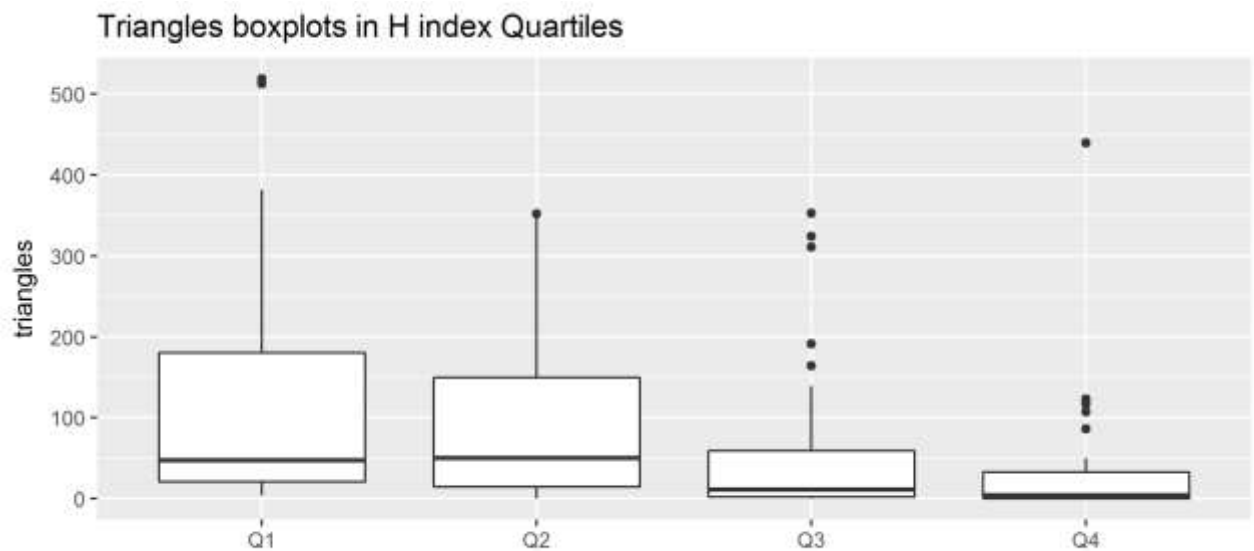


Figure 4.5.0.25 Triangles boxplots in h index quart

From figures 4.5.0.40 and 4.5.0.42 we see that SJR and H Index aren't linear related with the Triangles. Also it is observed that the SJR and H index boxplots are similar allocated and the most outliers are in Q3 and Q4 but the highest in Q1.

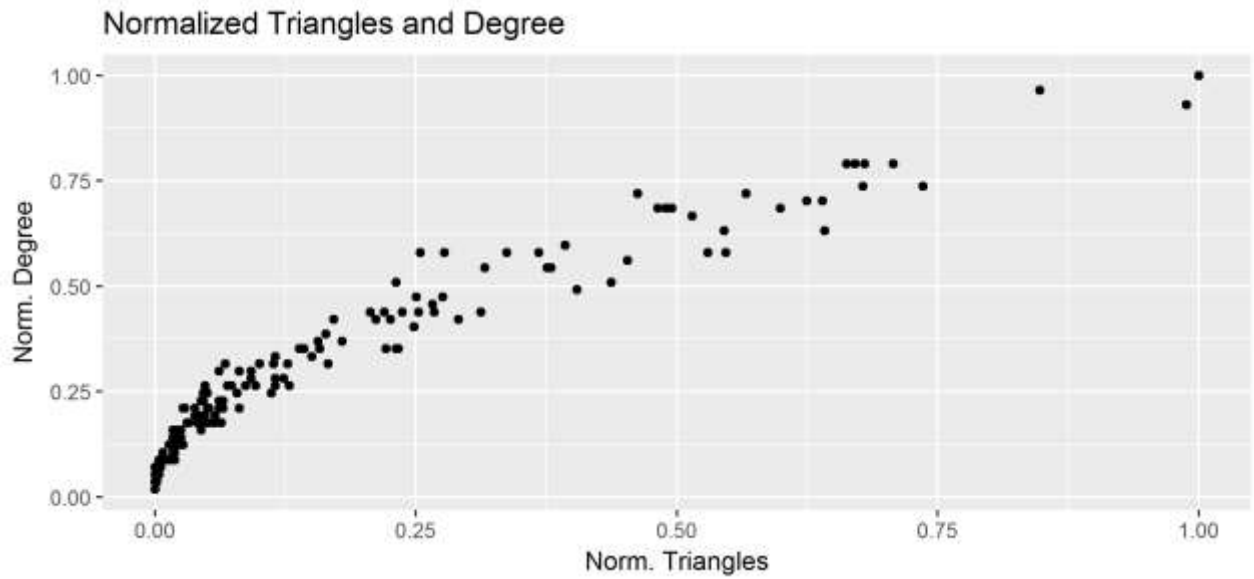


Figure 4.5.0.26 Norm Triangles & Degree

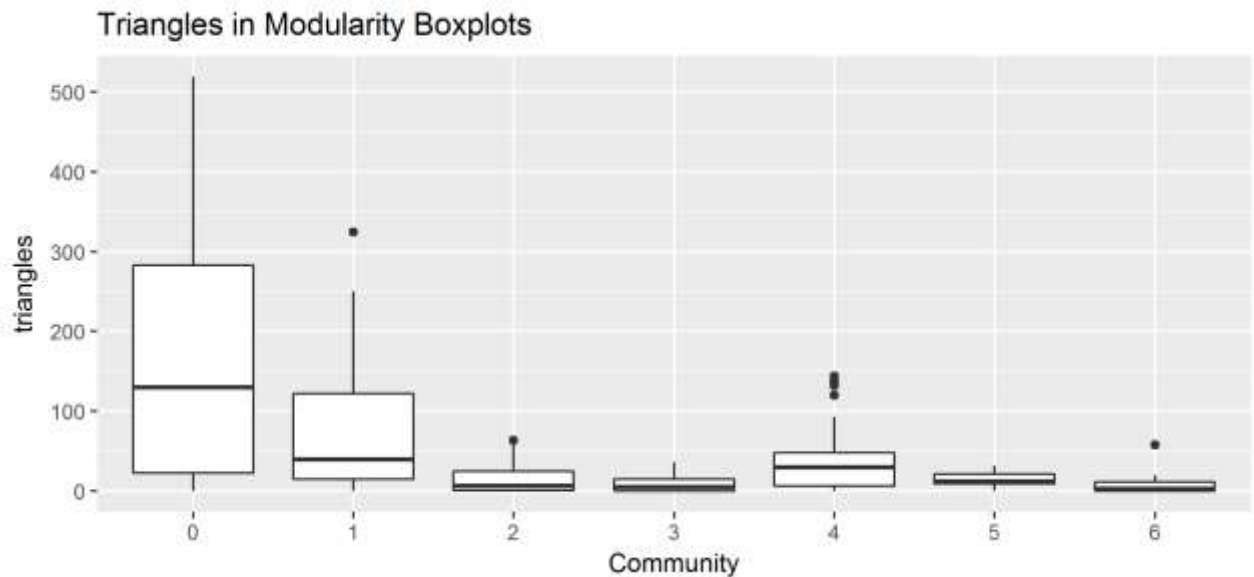


Figure 4.5.0.27 Triangles in modularity boxplots

In fig. 4.5.0.44, it is clearly that the degree has a linear relation with the triangles. As the triangles increase also the degree increases and from a point, triangle 0.15 the regression line is straight. Finally the triangles analysis closes by showing the allocation in each community. Community 0 has the most triangles and communities 1,2,4 and 6 have some outliers.

For the clustering section the same analysis is been followed and also added the clustering-triangles diagram.

Clustering frequency

Frequency

clustering

clustering bin	Frequency
[0.00, 0.10)	30
[0.10, 0.20)	2
[0.20, 0.30)	19
[0.30, 0.40)	55
[0.40, 0.50)	40
[0.50, 0.60)	23
[0.60, 0.70)	17
[0.70, 0.80)	1
[0.80, 0.90)	1
[0.90, 1.00]	3

Normalized Clustering and SJR

Norm. SJR

Norm. Clustering

106

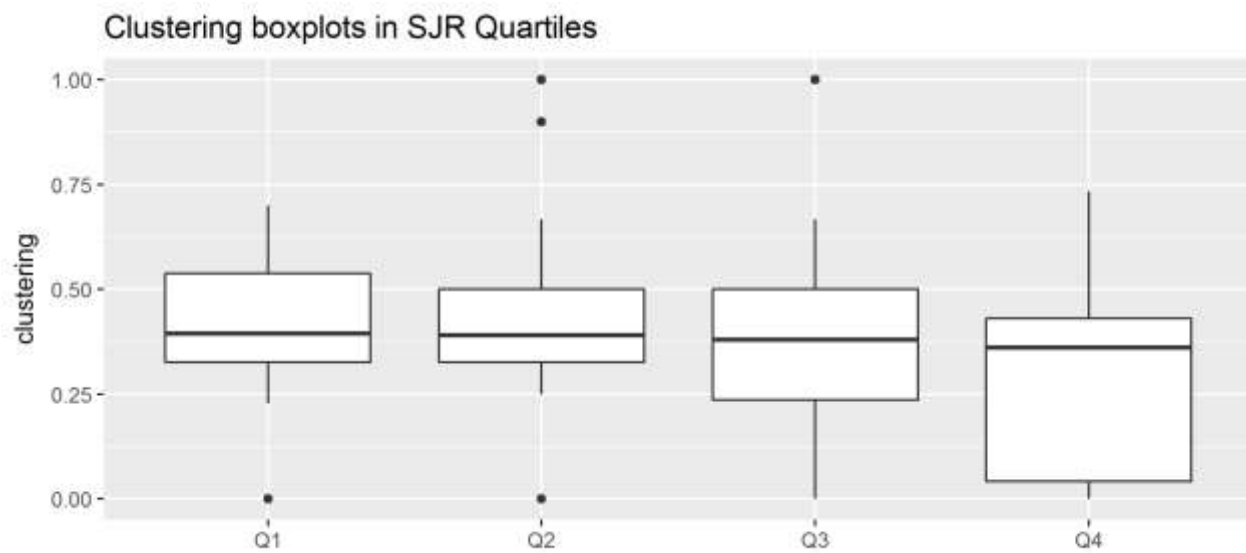


Figure 4.5.0.30 Clustering boxplots in sjr quart.

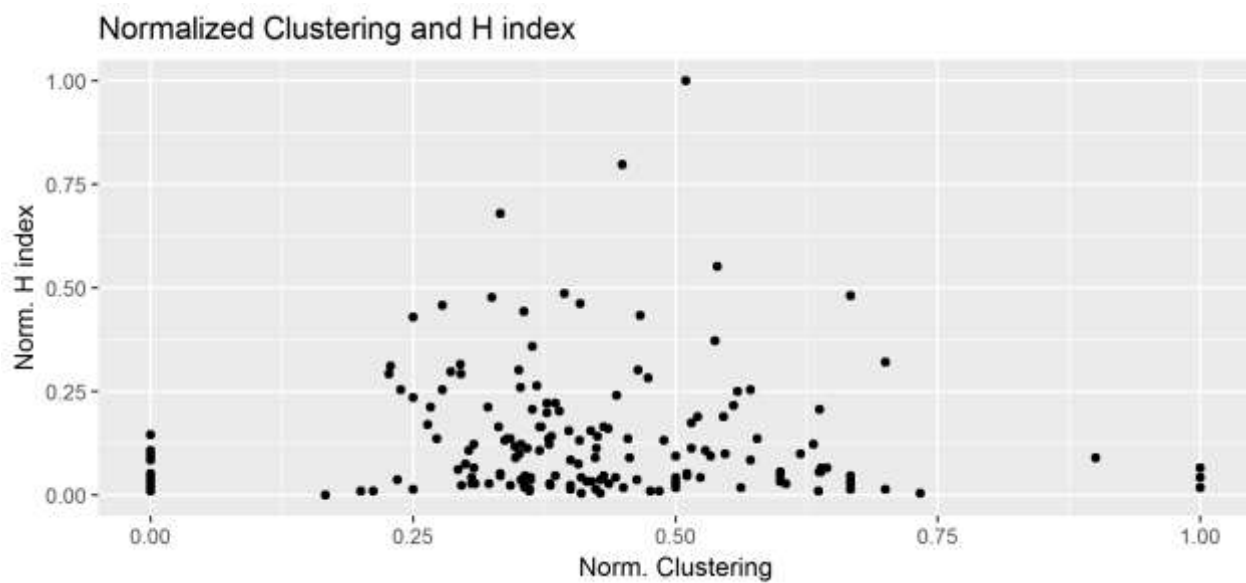


Figure 4.5.0.31 Norm Clustering & H index

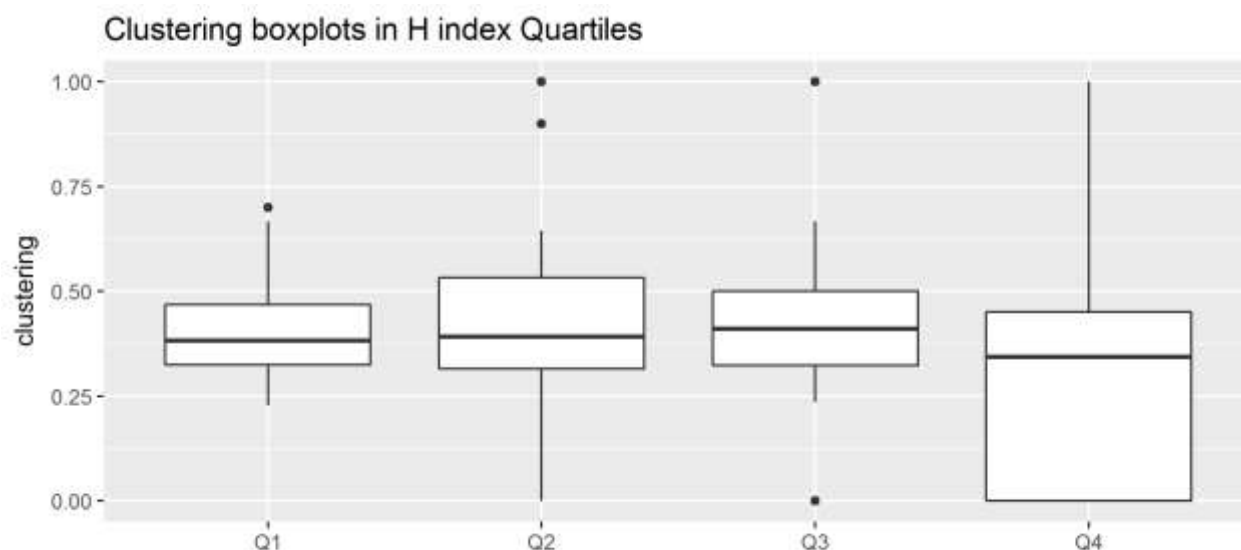


Figure 4.5.0.32 Clustering boxplots in h index quart

Figures 4.5.0.47 to 4.5.0.50 show the relation between SJR, H index and Clustering. Again we see that they don't have a linear relation and the respective graphs are mostly the same with the same allocations.

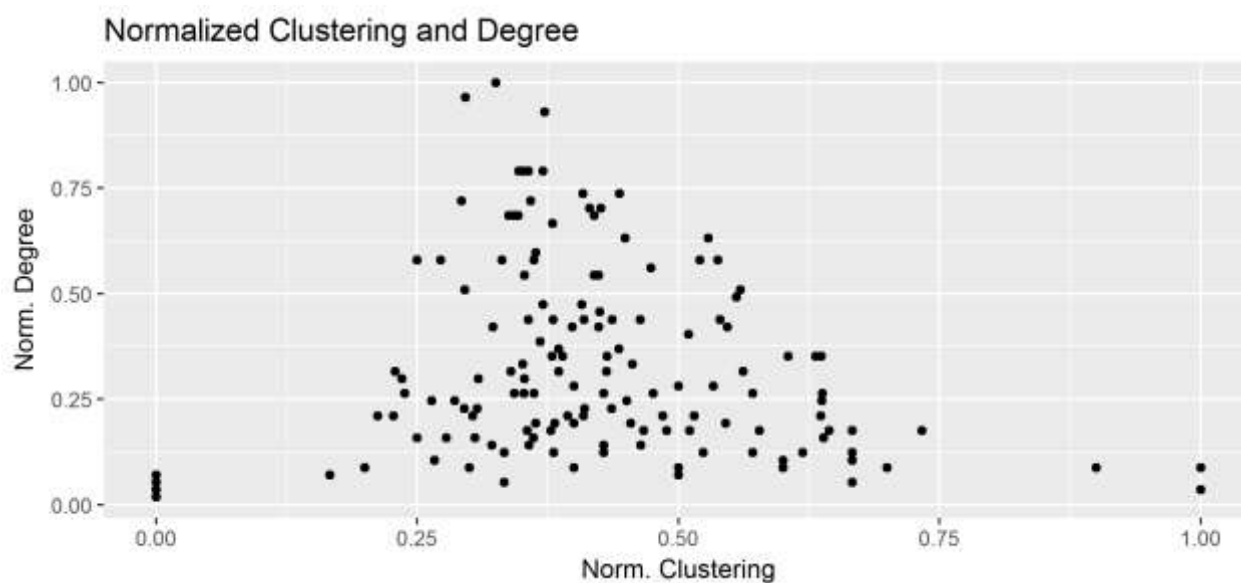


Figure 4.5.0.33 Norm Clustering & Degree

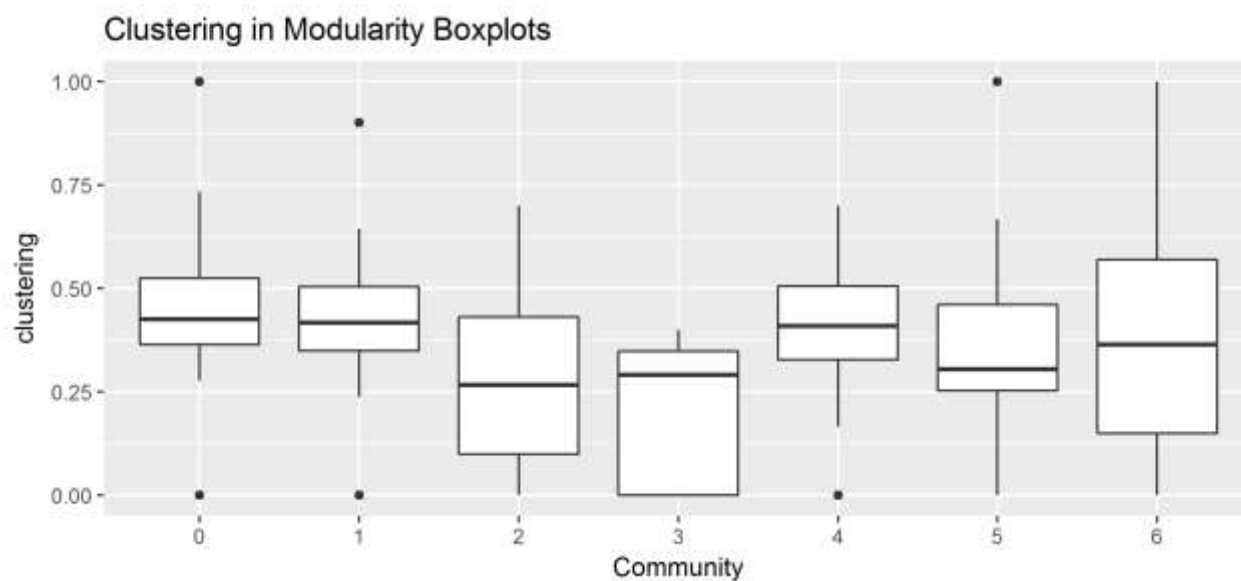


Figure 4.5.0.34 Clustering in modularity boxplots

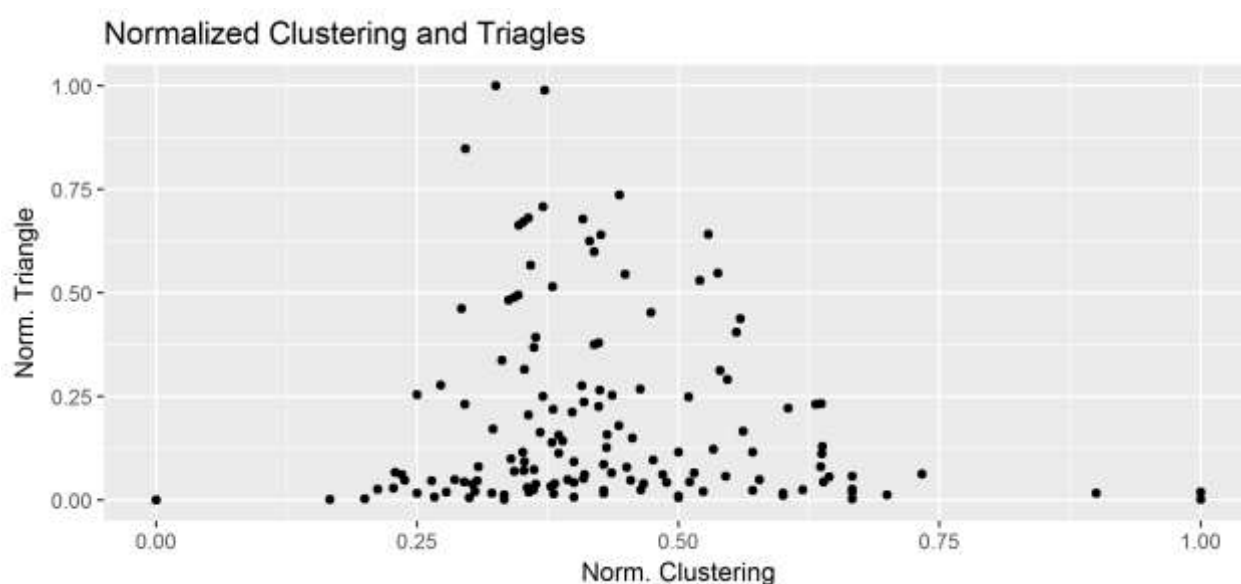


Figure 4.5.0.35 Norm Clustering & Triangles

From figure 4.5.0.53 we can see the relationship between clustering and triangles. For Norm.clustering 0 to 0.35, triangles are increasing and then steadily decrease until it reaches the journals with the maximum clustering: *journal of corporate real estate*, *finanzarchiv* and *financial markets institutions and instruments* with 1, 10 and 10 triangles respectively. Also the same feature is observed with the degree in figure 4.5.0.51 so triangles and degrees are not linear related with clustering.

4.3.6 Path & Eccentricity

Path is a “route across the network that runs from vertex to vertex along the edges of the network” [57]. The length can be calculated more than once as an edge can be crossed more than once. In this network the average path is 2.547 and the diameter is 6, which means that the maximum eccentricity is 6 [27]. Eccentricity is the maximum distance between a node and it's i edges of the node. For example if a node **P** is connected to 3 different nodes and the distances between the edges are 2, 5 and 3 the eccentricity of node **P** is 5.

```
summary(Data$eccentricity)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max. \n##      0.000   4.000   5.000   4.339   5.000   6.000
```

Eccentricity varies from 0 to 6 and in figure 4.1 it is shown the journals eccentricity. 11 journals have an eccentricity of 6, which is the networks diameter, 89 journals have eccentricity of 5 , 80 of 4, 10 of 0 and 2 journals of 1. Eccentricity of 2 and 3 don't exist. We expected to have 10 journals with 0 eccentricities because these are the journals with no connections, as we discussed previously and also the 2 journals that are only connected to each other have eccentricity of 1 also expected. These are the 12 journals with weak connections.

eccentricity	Count	Total Degree	Average Degree
0	10	0	0
1	2	2	1
4	80	2146	26.82
5	89	765	8.6
6	11	21	1.91

Table 36 Eccentricity

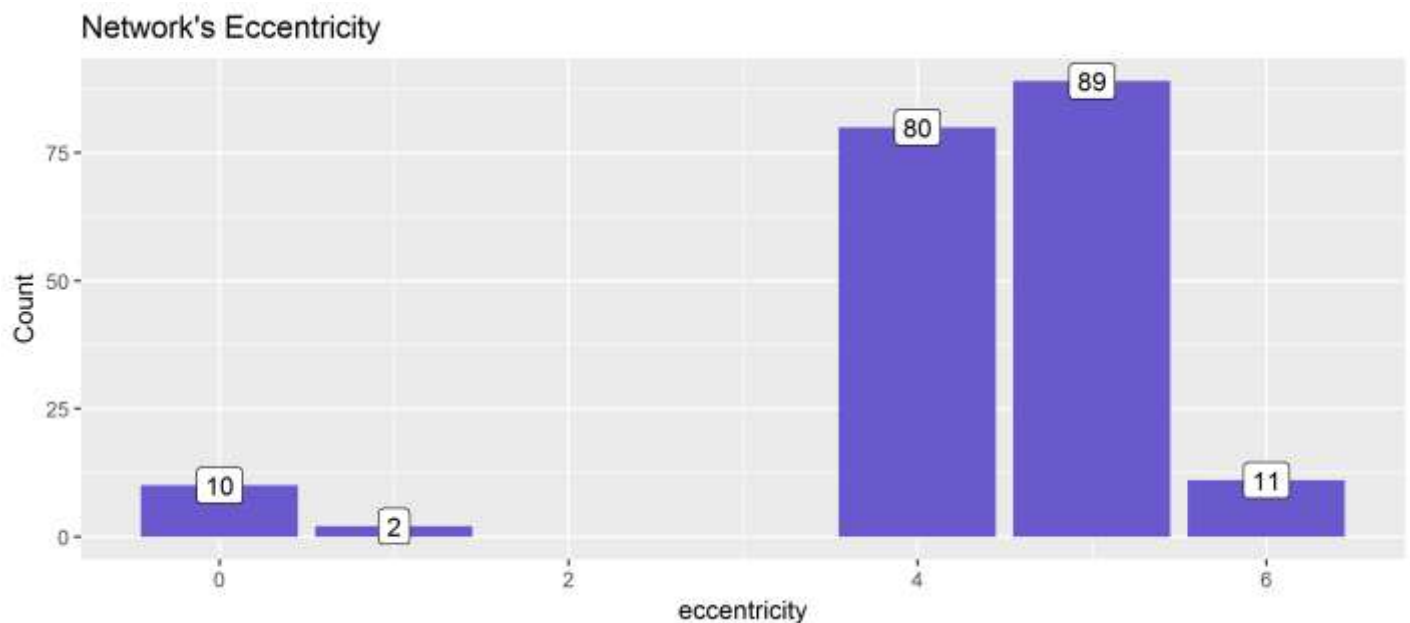


Figure 4.6.0.36 Networks eccentricity

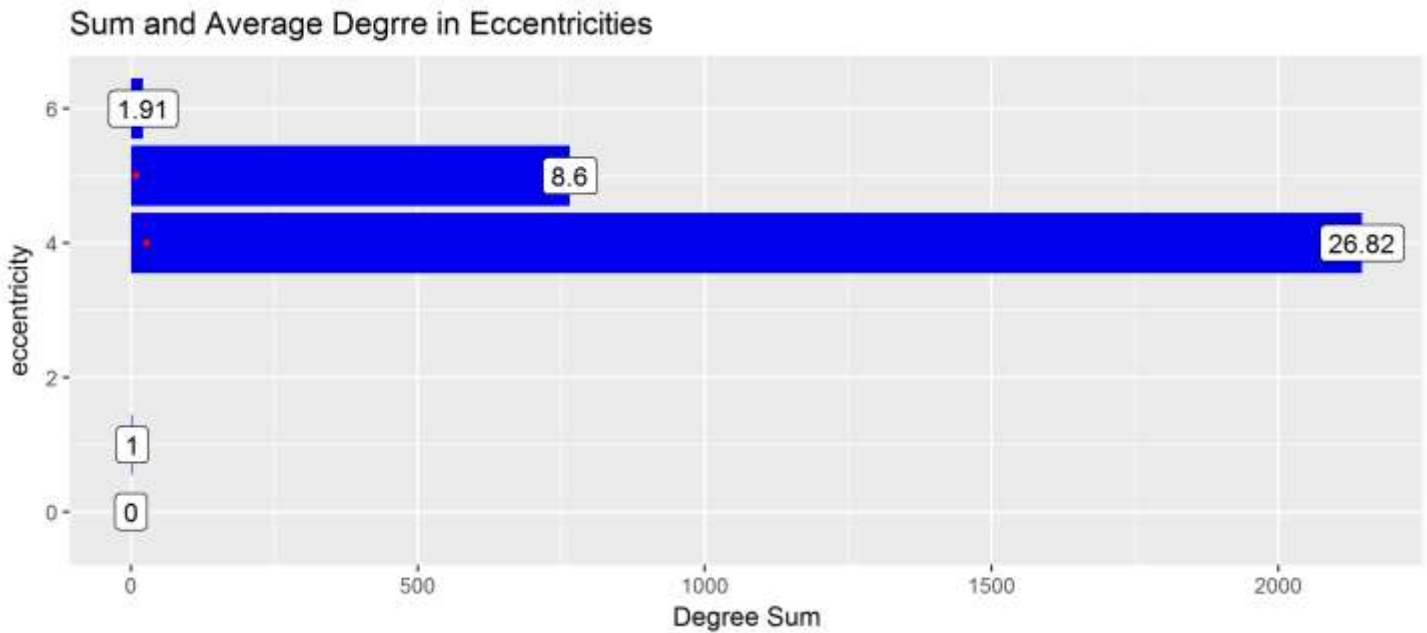


Figure 4.6.0.37 Sum & average degree in each eccentricity

Red dots and white boxes show the average degree in each eccentricity.

Figure 4.6.0.55 explains us the in each eccentricity what is the total degree and what the average degree. As higher or lower the eccentricity is the degree is smaller. For low eccentricity is normal as there no connections so degree is expected to be 0. If we have high eccentricity it means that the maximum distance of a node is high, so the node is far away. If a node is far away it has less connections so a small degree. The highest degrees have an eccentricity of 4.

Figures 4.6.0.54 and 4.6.0.56 show the Eccentricity frequency. Fig 4.6.0.56 shows only the central component eccentricity frequency, which is also contained in fig 4.6.0.54, and the most journals have an eccentricity of 5, more precisely 89 journals have eccentricity 5, 80 journals have eccentricity 4 and 11 journals eccentricity of 6.

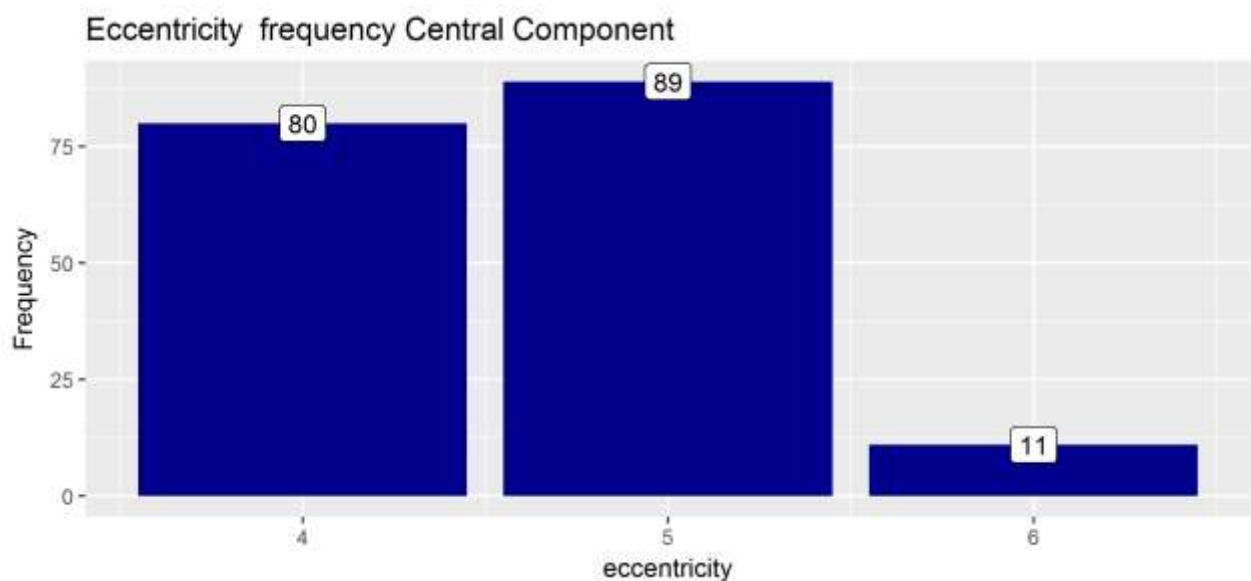


Figure 4.6.0.38 eccentricity of central component

After normalizing the eccentricity the results were 0, 0.5 and 1 so we expected to have three vertical lines in all following graphs and with no relation. Sjr and H index boxplots are the same but have a different median. For both indicators Q1 and Q2 the eccentricity median is 4 and for Q3 and Q4 is 5.

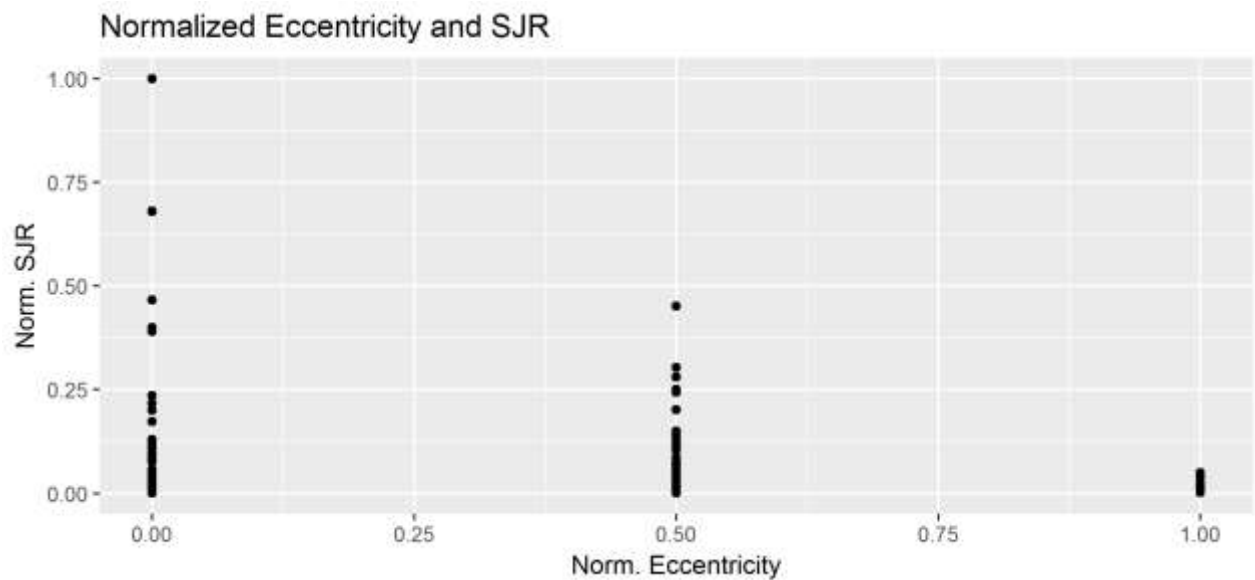


Figure 4.6.0.39 Norm Eccentricity & Sjr

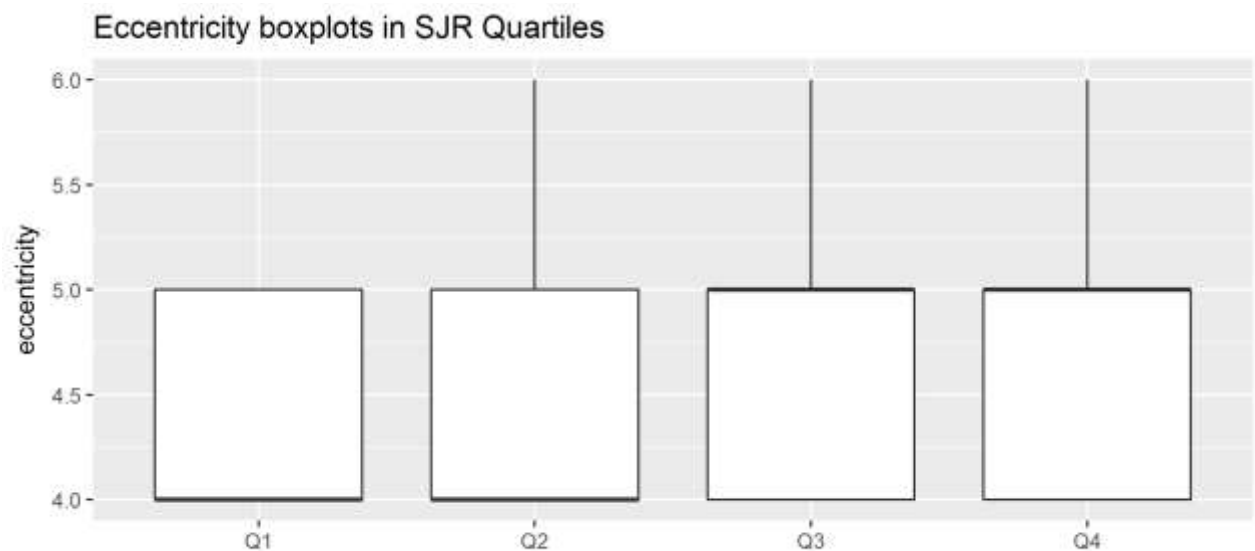


Figure 4.6.0.40 Eccentricity boxplots in sjr quart.

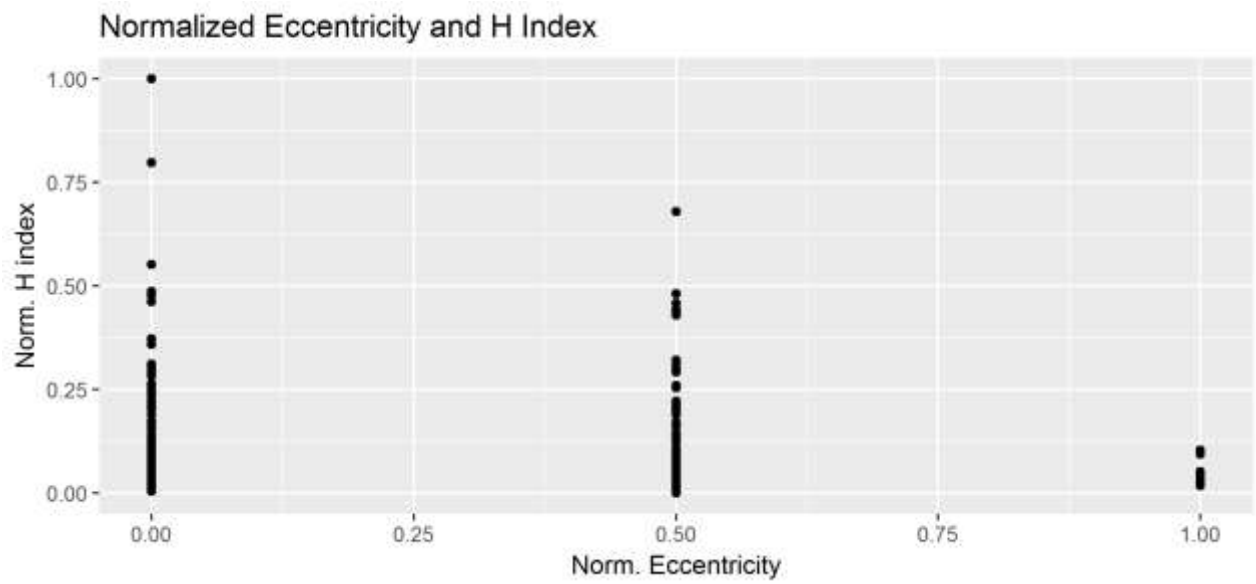


Figure 4.6.0.41 Norm Eccentricity & H index

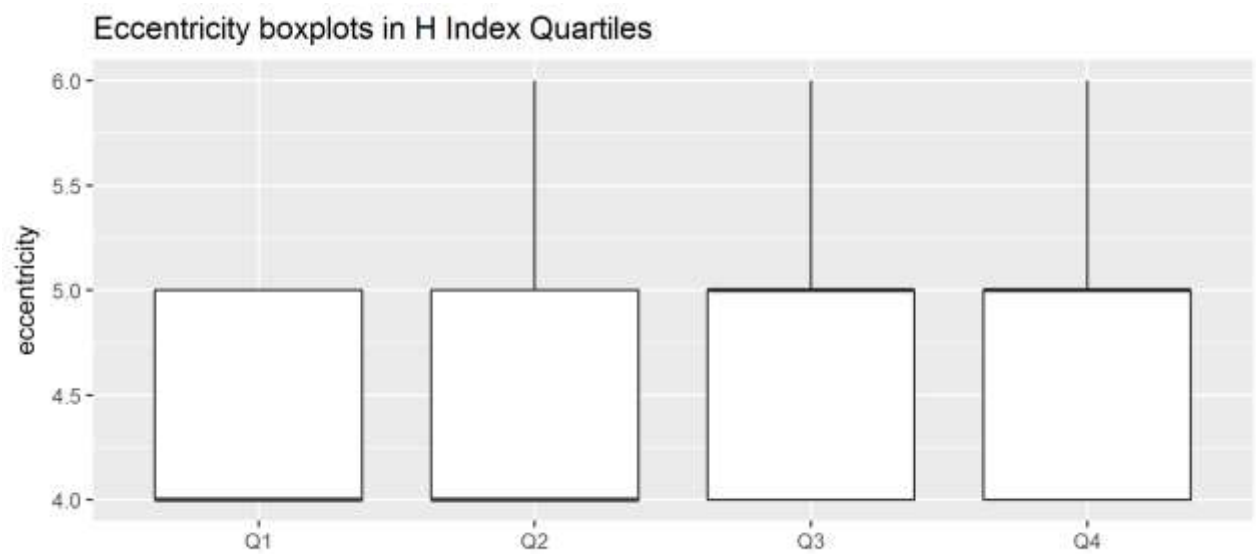


Figure 4.6..0.42 Eccentricity boxplots in h index quart

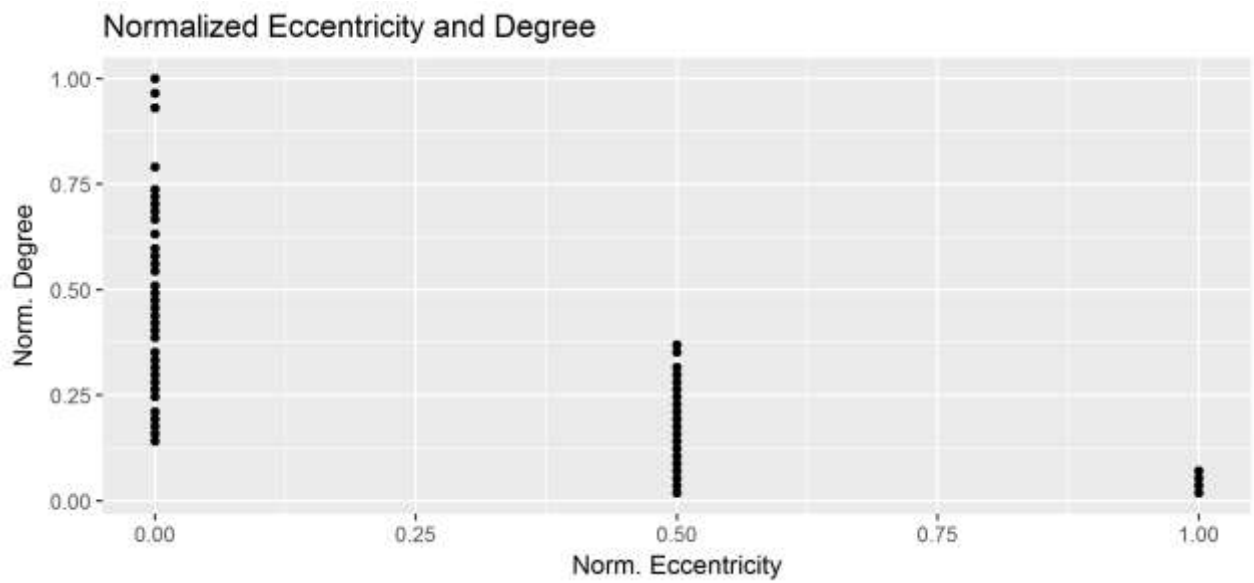


Figure 4.6.0.43 Norm Eccentricity & Degree

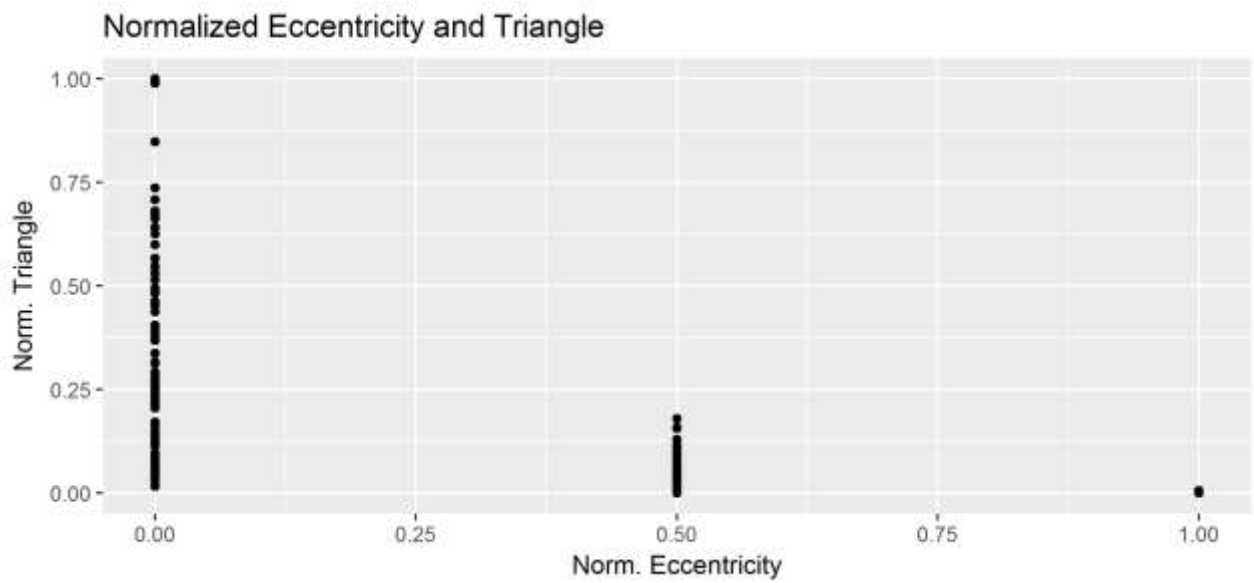


Figure 4.6.0.44 Norm Eccentricity & Triangles

The majority of the normalized observations are in the graphs SJR, H Index, Degree and Triangles are have a normalized eccentricity of 0. Only norm.clustering has the most observations in norm.eccentricity 0.5.

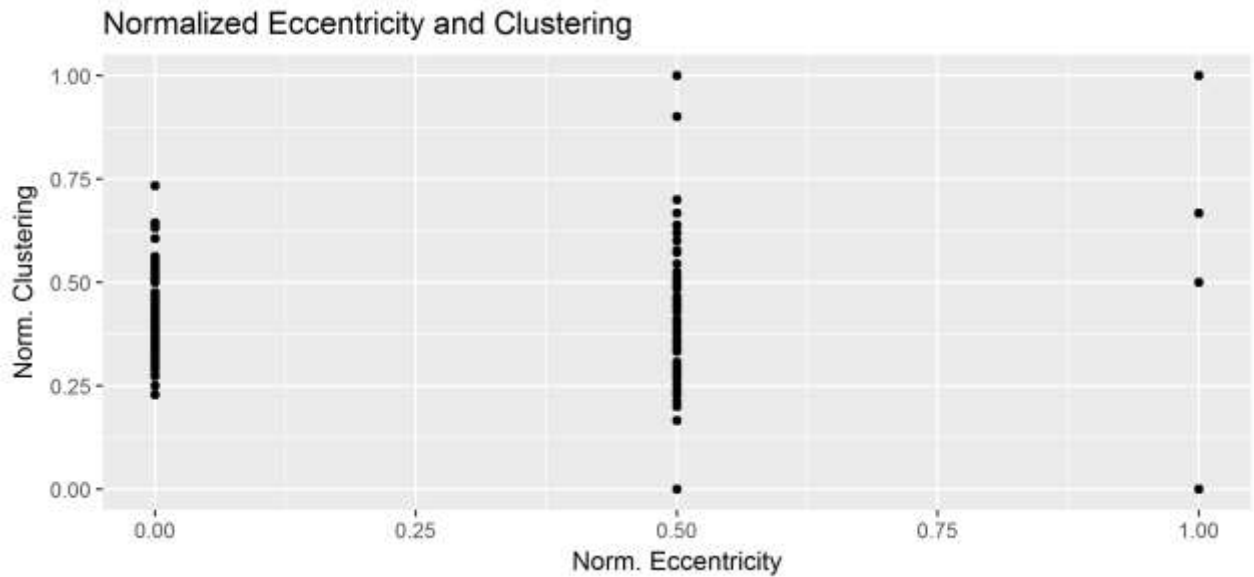


Figure 4.6.0.45 Norm Eccentricity & Clustering

4.3.7 Centralities

Centralities are different type of measures in an network that can explain-show “which are the most important vertices, journals, in a network”. In the following analysis the Betweenness, Closeness, Harmonic Closeness, Eigenvector, Hubs & Authority and PageRank centralities are calculated for each journal and we will focus and analyze their relation with SJR, H Index, Degree, Modularity, Triangles, Clustering and Eccentricity but for only the central component journals. For each centrality, first the frequency diagram is shown to have an overall look, then the examination of SJR and H index relationship and their boxplots allocation, after how the central component is divided into subgroups, modularity communities, and finally the Degree, Triangles Clustering and Eccentricity relation. For a better view the observation have been normalizes under the normalization formula:

$$N_i = \frac{A_i - \min(A)}{\max(A) - \min(A)}$$

4.3.8 Betweenness Centrality

Betweenness centrality or simple betweenness is how many times an node can be at the end of a geodesic path (the shorter path between two vertices). The idea behind this is that the vertices (nodes-Journals in our network) exchange information, messages, rumors, and if we wanted to count these exchanges with the same rate we would say that it is “*proportional to the number of the geodesic paths the vertex lies on.*” [57]. So in our network journals with high betweenness are likely to have an higher prestige – level- and may control the information passing through. Table 37 shows the top 15 betweenness and the normalized betweenness of each journal.

Rank	Journal	betweennesscentrality	Norm.Betw	Rank
167	review_of_development_finance	1035.30	1.00	1
42	journal_of_banking_and_finance	895.63	0.87	2
62	journal_of_business_finance_and_accounting	831.89	0.80	3
109	emerging_markets_finance_and_trade	645.02	0.62	4
79	accounting_and_finance	633.08	0.61	5
63	annals_of_finance	584.26	0.56	6
74	journal_of_financial_services_research	571.04	0.55	7
18	contemporary_accounting_research	557.93	0.54	8
81	pacific_basin_finance_journal	553.40	0.53	9
32	journal_of_world_business	541.30	0.52	10
151	international_journal_of_managerial_finance	531.64	0.51	11
36	journal_of_risk_and_insurance	450.08	0.43	12
94	review_of_quantitative_finance_and_accounting	422.16	0.41	13
76	quantitative_finance	412.30	0.40	14
25	journal_of_financial_intermediation	400.61	0.39	15

Table 37 Top 15 betweenness centralities

Review of development finance is the journal with the highest betweenness 1035 and it's surprising because it's 167th ranked by SCImago but it's the 2nd journal with the highest degree ,55. *Journal of banking and finance* has betweenness 895, degree 57 and it's ranked 42nd by SCImago.

```
summary(Dat$betweennesscentrality)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.00   12.33   67.39  129.80  185.10 1035.00
```

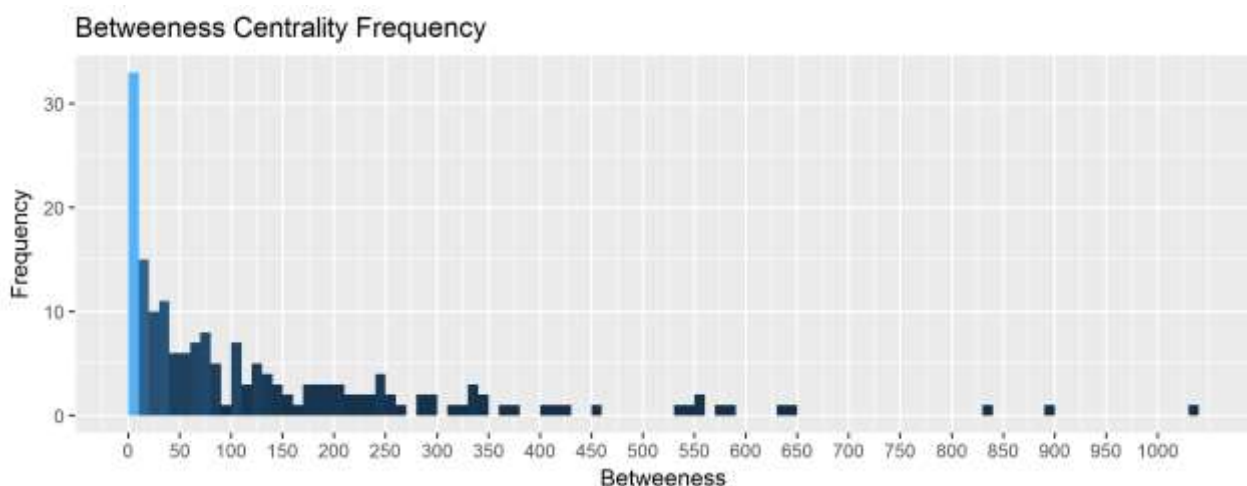


Figure 4.8.0.46 Betweenness Frequency

Betweenness values vary between 0 and 1035. The mean betweenness is 129.8 and the median 67.39 which explains the right skewness. In fig 6.1 the frequency betweenness is constructed by classes of 10. As it is obvious the majority of the data lie in the first class (0-10) and also the skewness is visualised. Next follows the SJR relation.

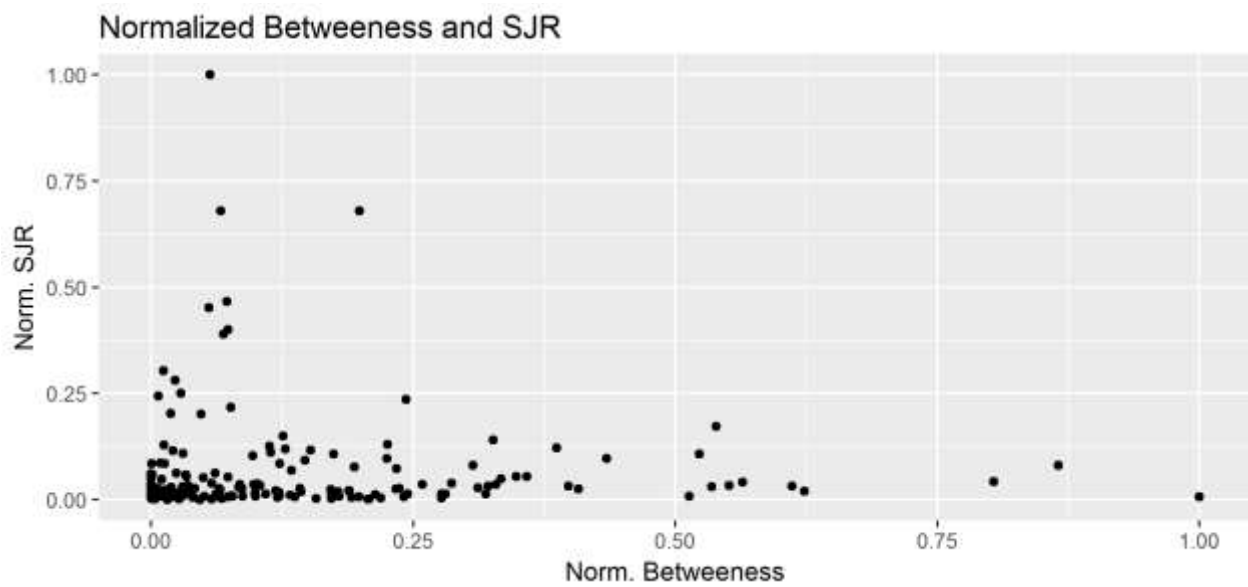


Figure 4.8.0.47 Norm Betweenness & Sjr

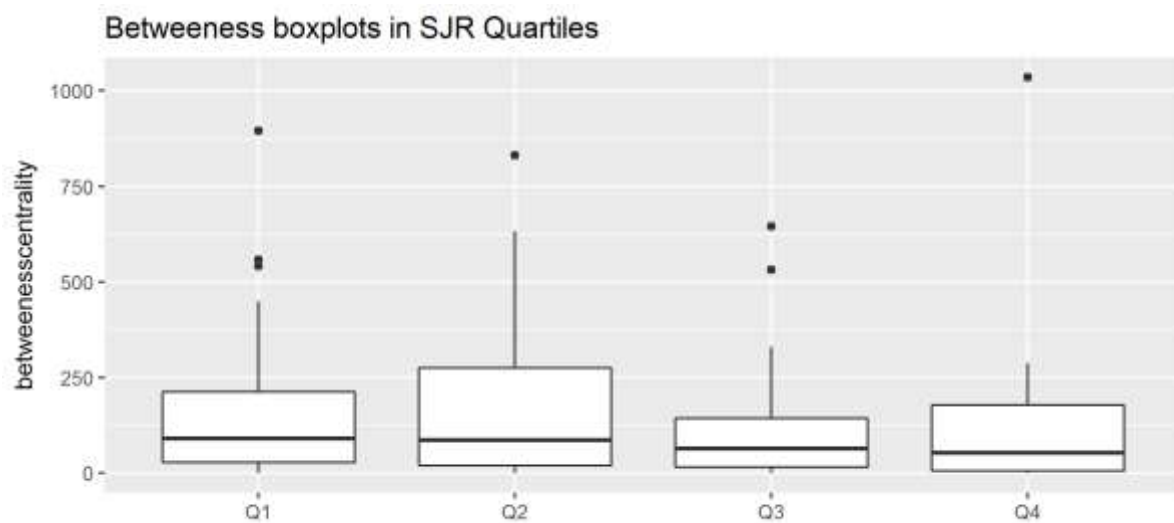


Figure 4.8.0.48 Betweenness boxplots in sjr quart.

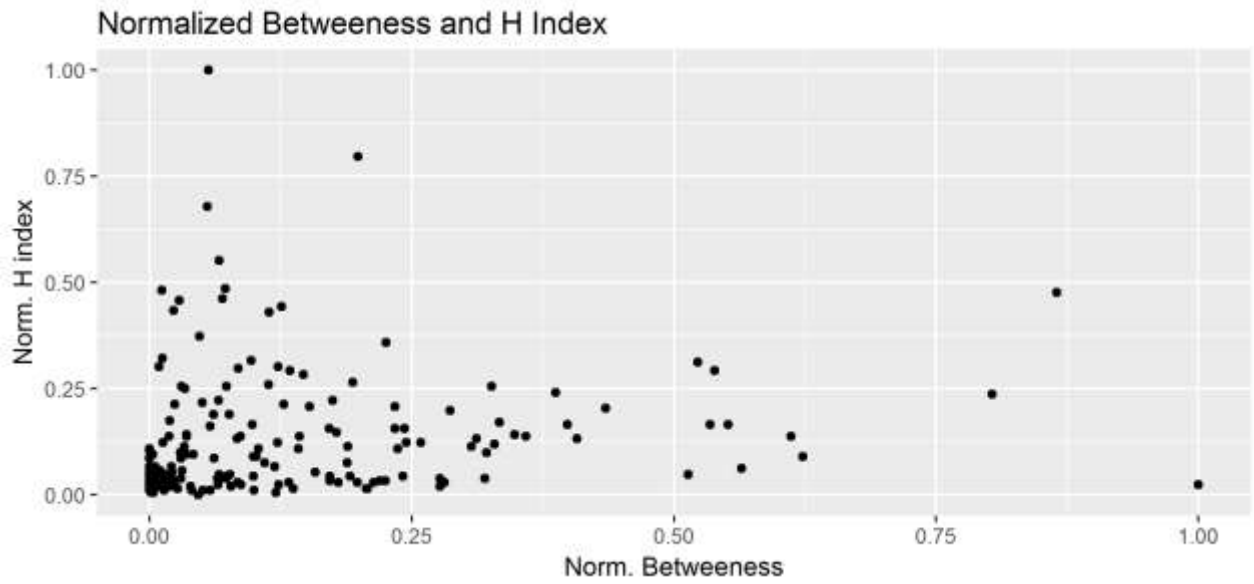


Figure 4.8.0.49 Norm Betweenness & H index

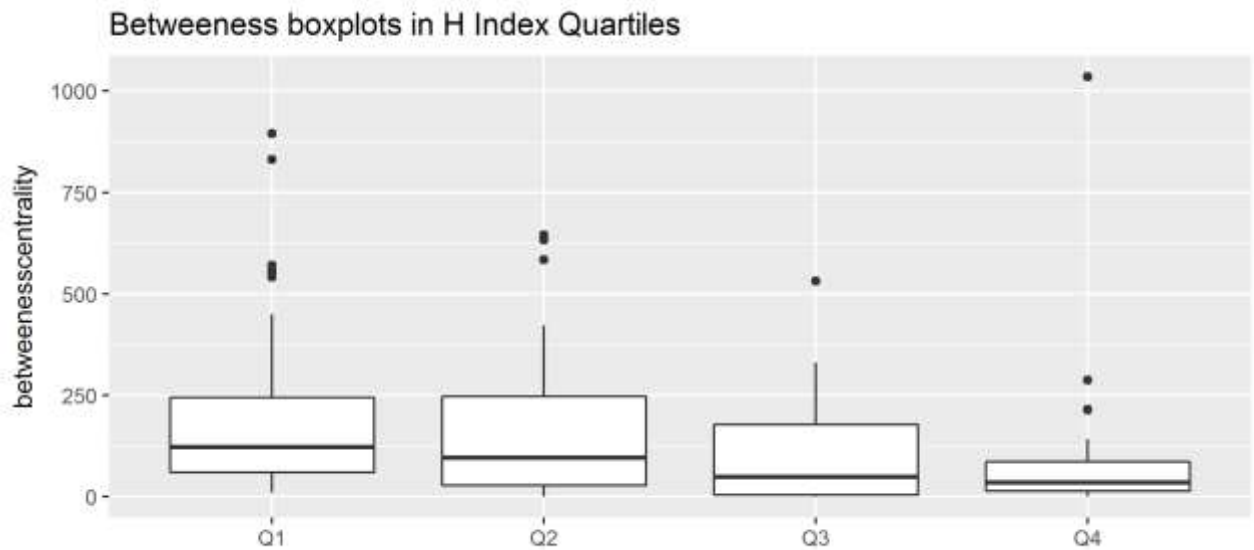


Figure 4.8.0.50 Betweenness boxplots in h index quart

From figures 4.8.0.65 and 4.8.0.67 the relationship between SJR H index and Betweenness is none existed. SJR and H Index indicators don't impact the betweenness centrality. Moreover we see from the figure 4.8.0.66 that the journal with the highest betweenness is in Q4 and moreover all boxplots are the same. In H index boxplots we see that Q1 and Q2 are the same and Q3 and Q4 steadily decrease.

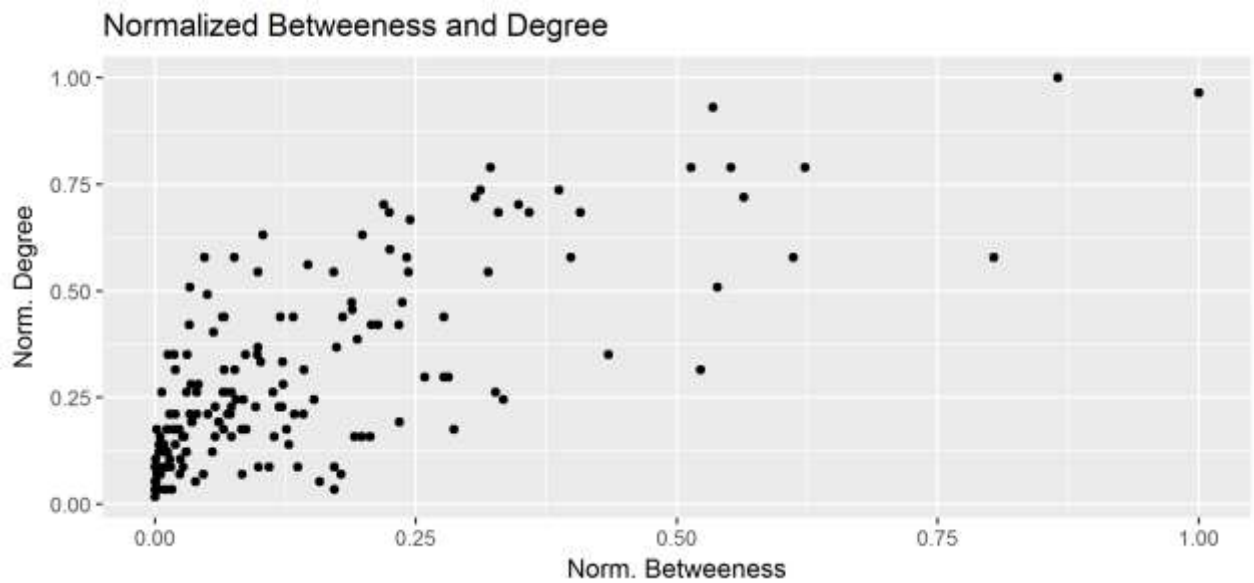


Figure 4.8.0.51 Norm Betweenness & Degree

Degree and Betweenness have a relation as it can be viewed in figure 4.8.0.69. As the normalized degree increases also the normalized betweenness does. The same feature is also observed in fig 4.8.0.71 with the normalized triangles. Although they have relationship they regression line show us that they don't have a linear relation. Also the betweenness boxplots were created in modularity communities; fig. 4.8.0.70 shows what betweenness centralities each community has. We can see that the community 0 is the bigger and next follows 1,5, and 6 with mere differences. Community 4 has is smaller, like community 2, but it contains some extreme values and they can be seen as outliers. Finally clustering coefficient doesn't affect the betweenness and it's can be observed in fig 4.8.0.72

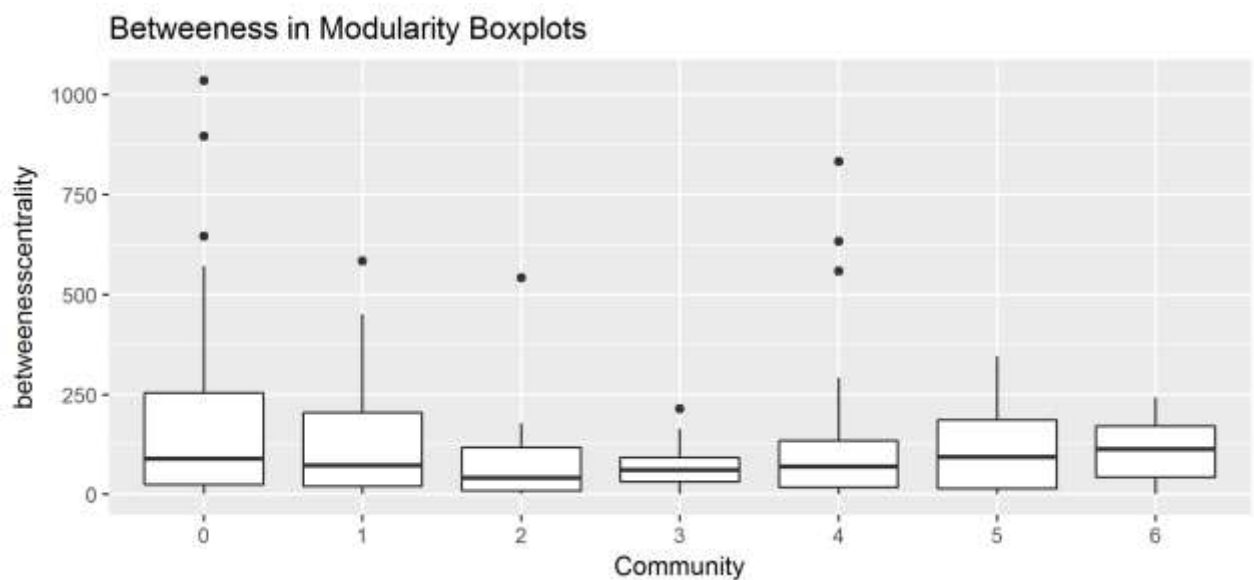


Figure 4.8.0.52 Betweenness in modularity boxplots

Figure 6.7

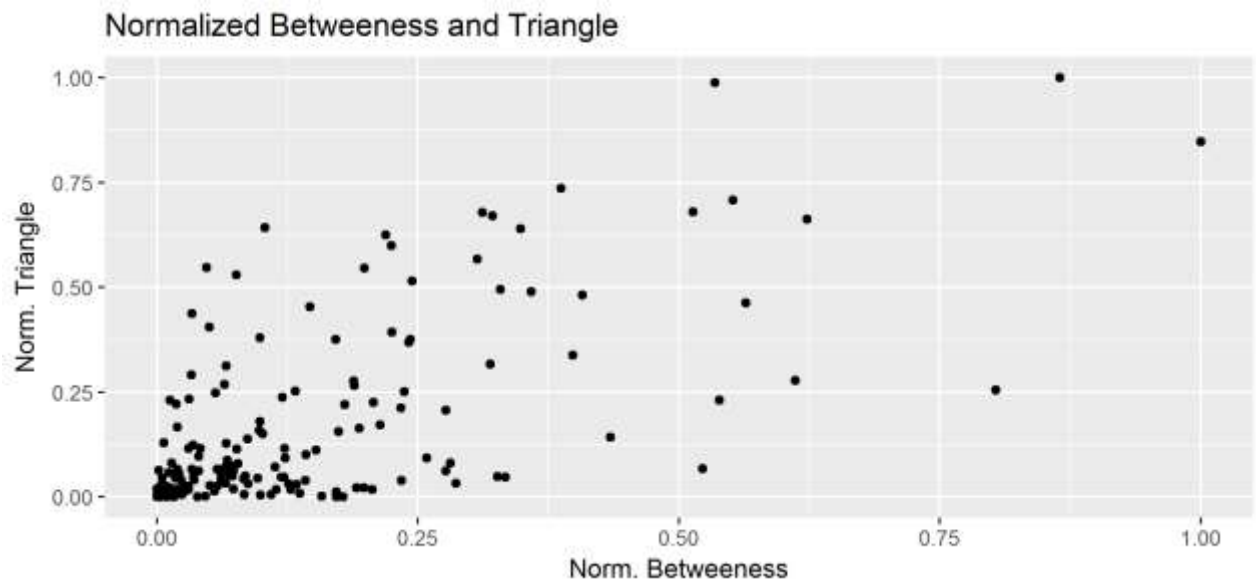


Figure 4.8.0.53 Norm Betweenness & Triangles

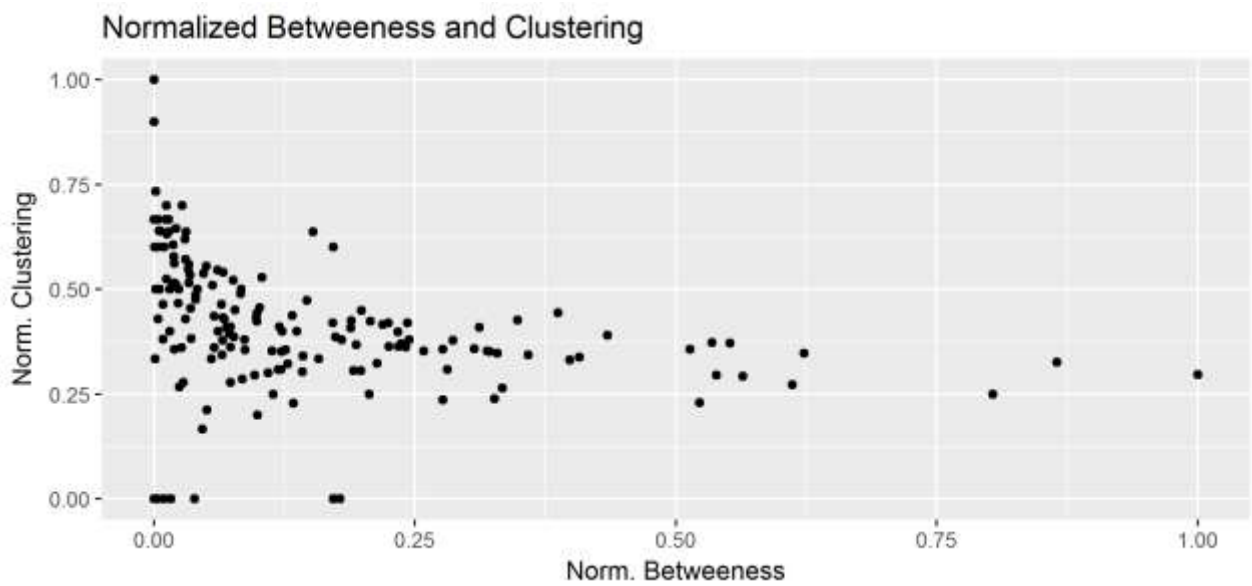


Figure 4.8.0.54 Norm Betweenness & Clustering

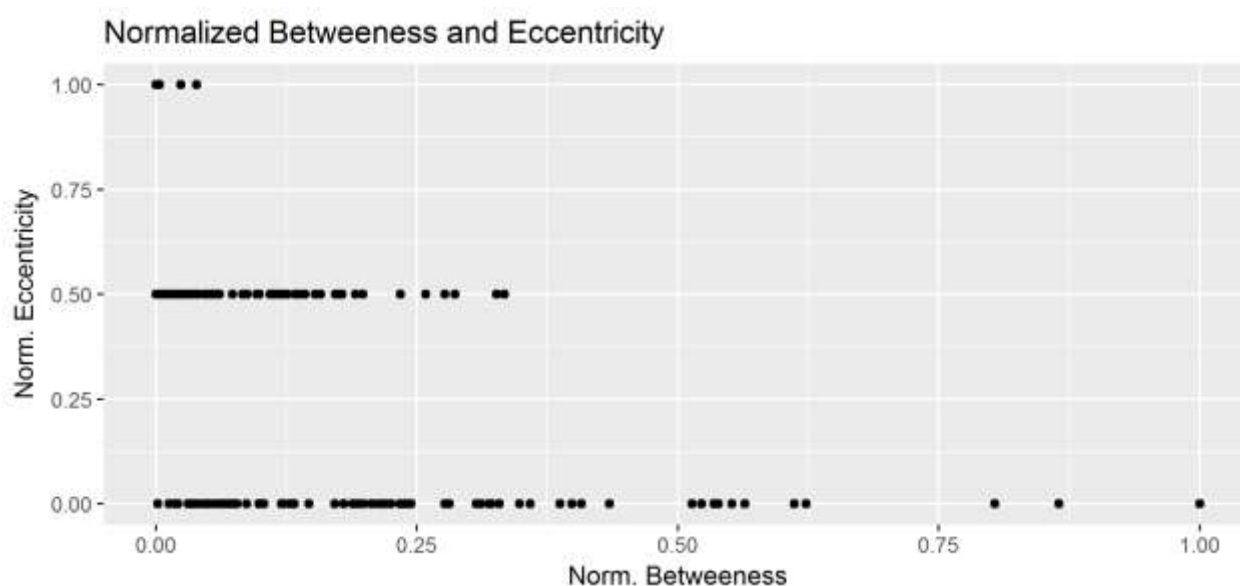


Figure 4.8.0.55 Norm Betweenness & Eccentricity

4.3.9 Closeness Centrality

Closeness Centrality is a measure that calculates “the mean distance from a vertex to other vertices”[57] So in our network a journal’s closeness centrality is the average distance between the journals it’s connected. As greater the closeness is, the more delayed the information will be in contrast with shorter average paths. Table 38 shows the top 15 journals’ closeness centralities.

Journal	closenesscentrality	Norm.Clos	Rank
review_of_development_finance	0.54	1.00	1
journal_of_banking_and_finance	0.54	0.98	2
pacific_basin_finance_journal	0.53	0.96	3
international_journal_of_managerial_finance	0.52	0.93	4
emerging_markets_finance_and_trade	0.52	0.92	5
journal_of_financial_research	0.52	0.91	6
international_review_of_finance	0.51	0.89	7
international_review_of_financial_analysis	0.51	0.88	8
journal_of_financial_services_research	0.50	0.87	9
review_of_quantitative_finance_and_accounting	0.50	0.87	9
international_review_of_economics_and_finance	0.50	0.85	10
review_of_financial_economics	0.50	0.84	11
journal_of_financial_intermediation	0.49	0.83	12
journal_of_financial_stability	0.49	0.83	12
journal_of_international_financial_markets_institutions_and_money	0.49	0.83	12

Table 38 top 15 closeness centralities.

Table 7.1

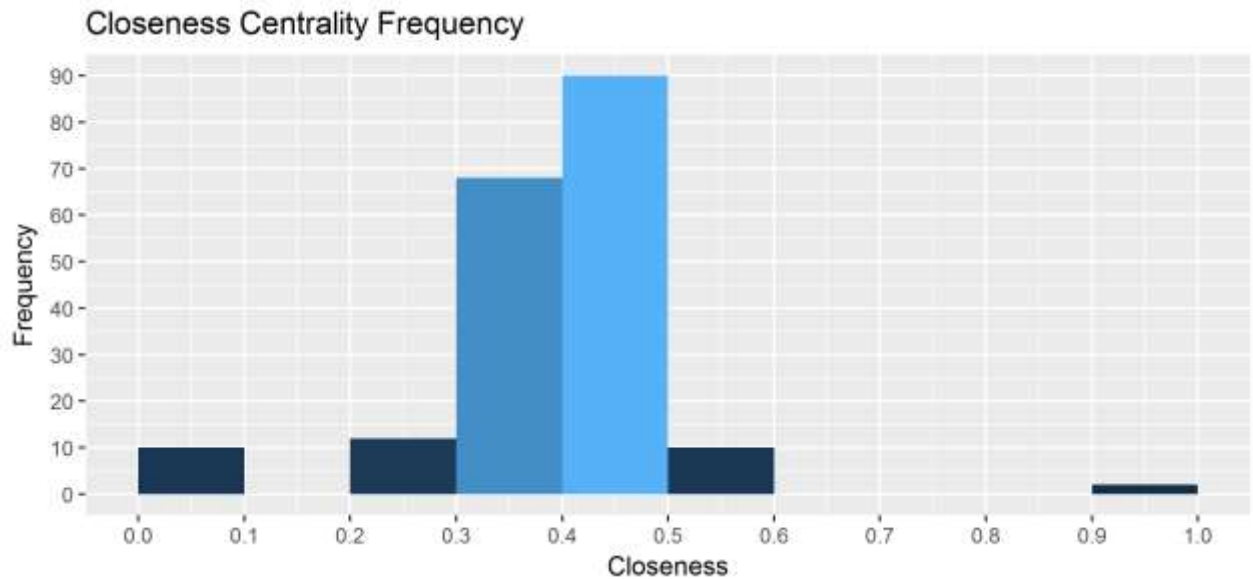


Figure 4.9.0.56 Closeness Frequency

From the frequency graph in figure 4.9.0.74 we see that the most journals have a closeness centrality between 0.4 and 0.5 and two journals have closeness of 1. These journals are *real estate taxation* and *journal of taxation* and they belong in the 3rd group of components which are connected only to each other. SJR and H index indicators have no impact to closeness centrality measure and most values in SJR boxplots are in Q3 and in Q4 we observe many outliers. In H Index quartiles the most values are in Q4 and also the higher ones. The degree also affects closeness centrality; these two measures are linear related and higher the degree gets the regression line slope increases and the same thing is observed with the triangles. In contrast with the betweenness, closeness centrality boxplots in modularity are allocated smoothly, community 0 has the biggest proportion, community 2 the 2nd and similarly for the other communities. Clustering scatterplot is very abnormal and at first it can be linear related but then it plateaus and finally the regression slope turns negative.

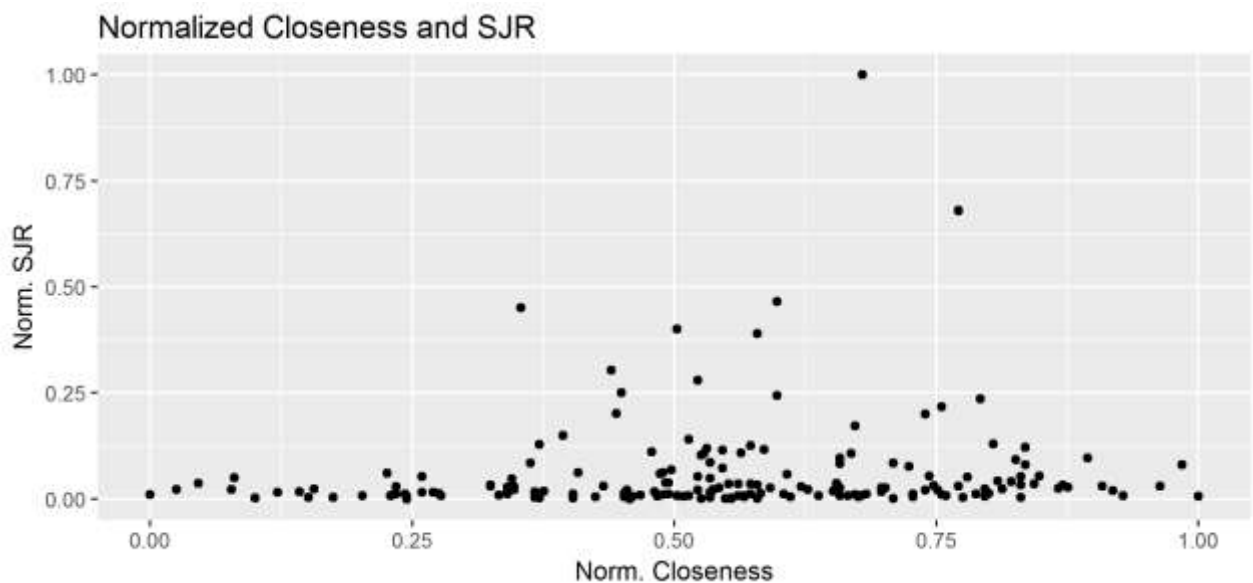


Figure 4.9.0.57 Norm Closeness & Sjr

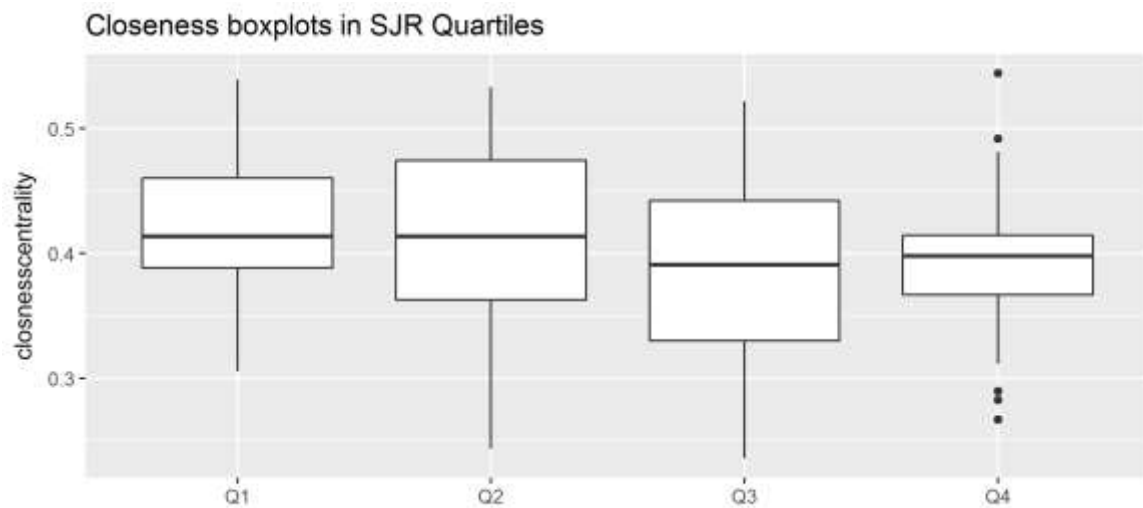


Figure 4.9.0.58 Closeness boxplots in sjr quart.

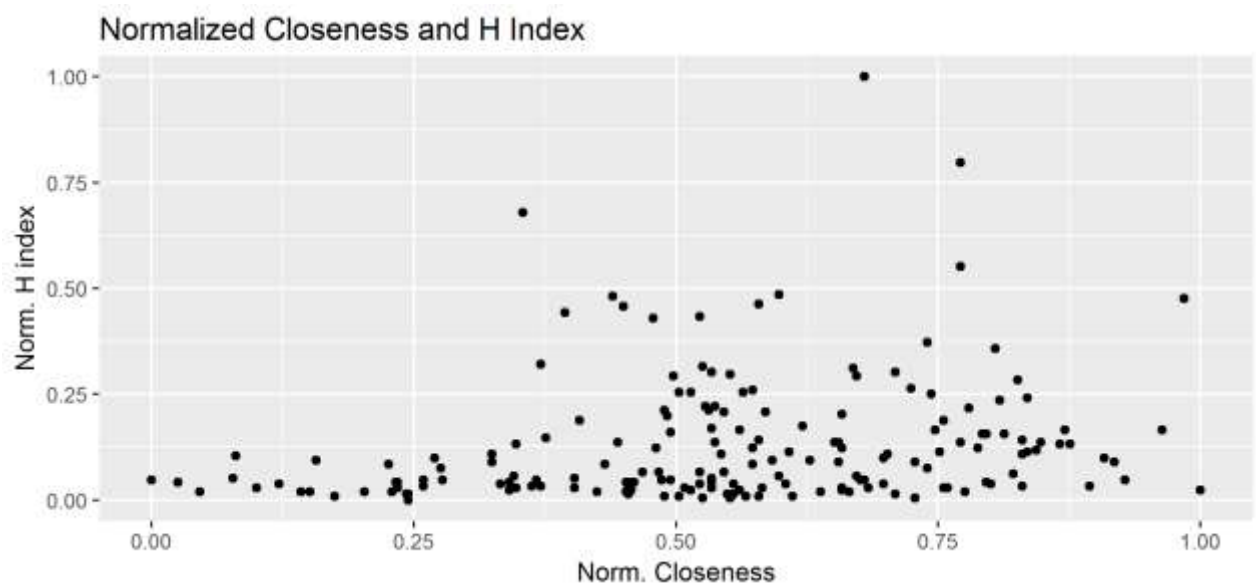


Figure 4.9.0.59 Norm Closeness & H index

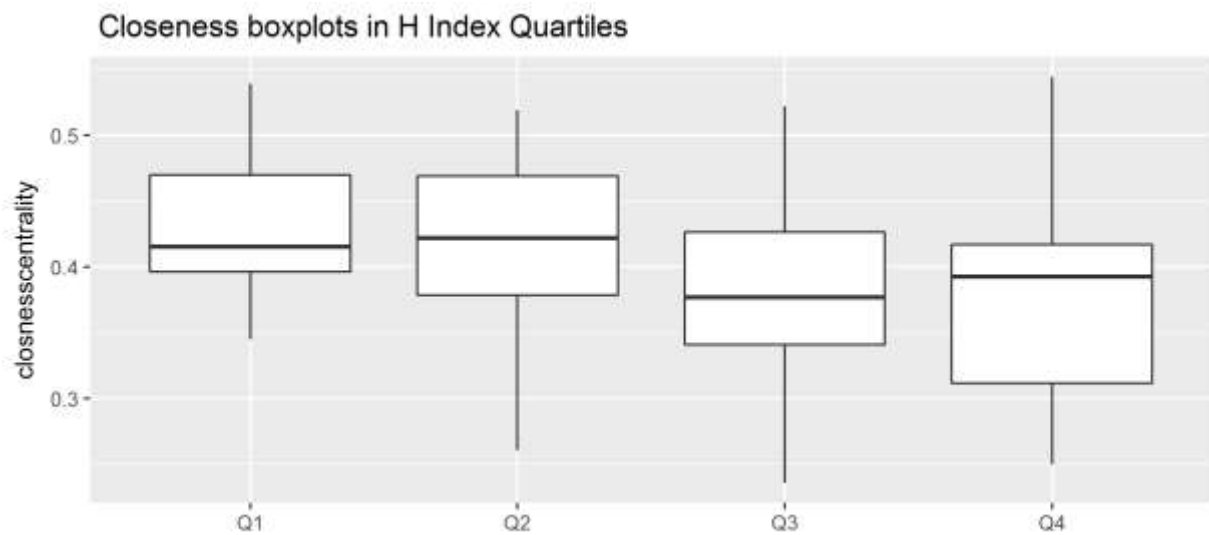


Figure 0.60 Closeness boxplots in h index quart

Figure 7.5

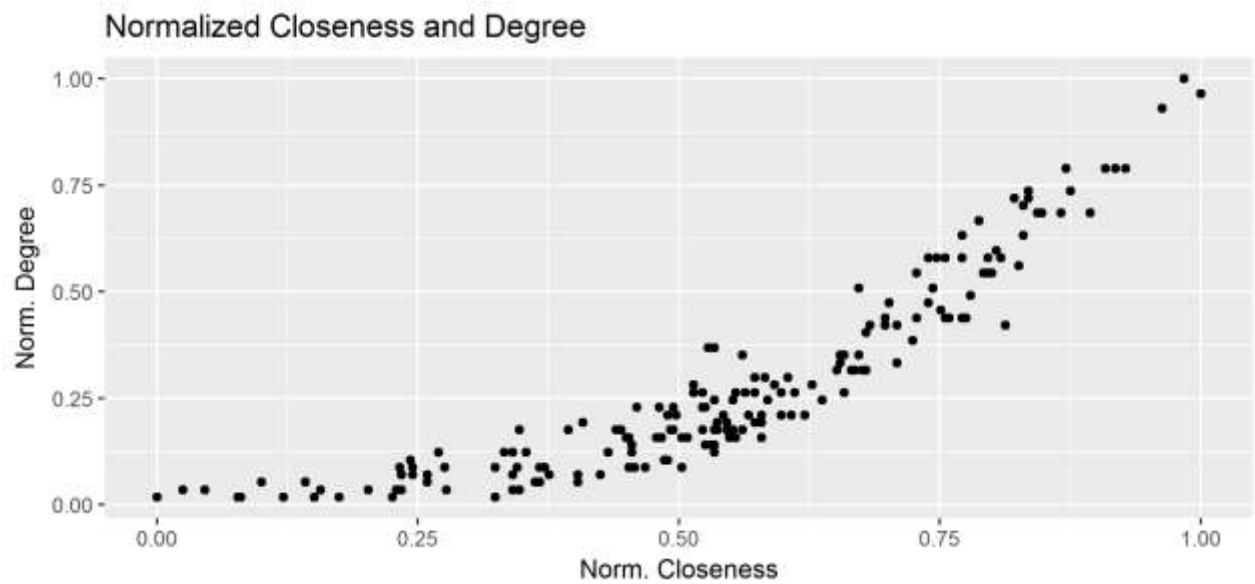


Figure 4.9.0.61 Norm Closeness s & Degree

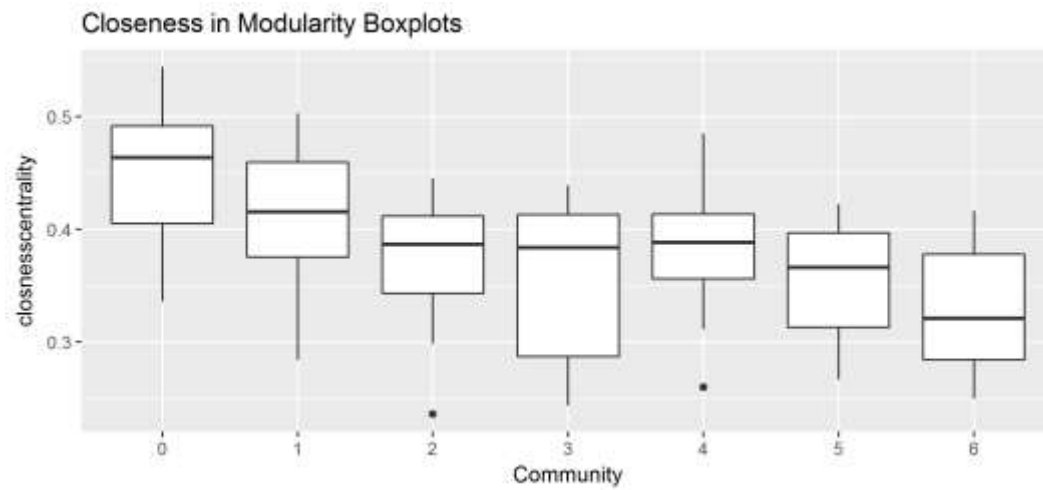


Figure 4.9.0.62 Closeness in modularity boxplots

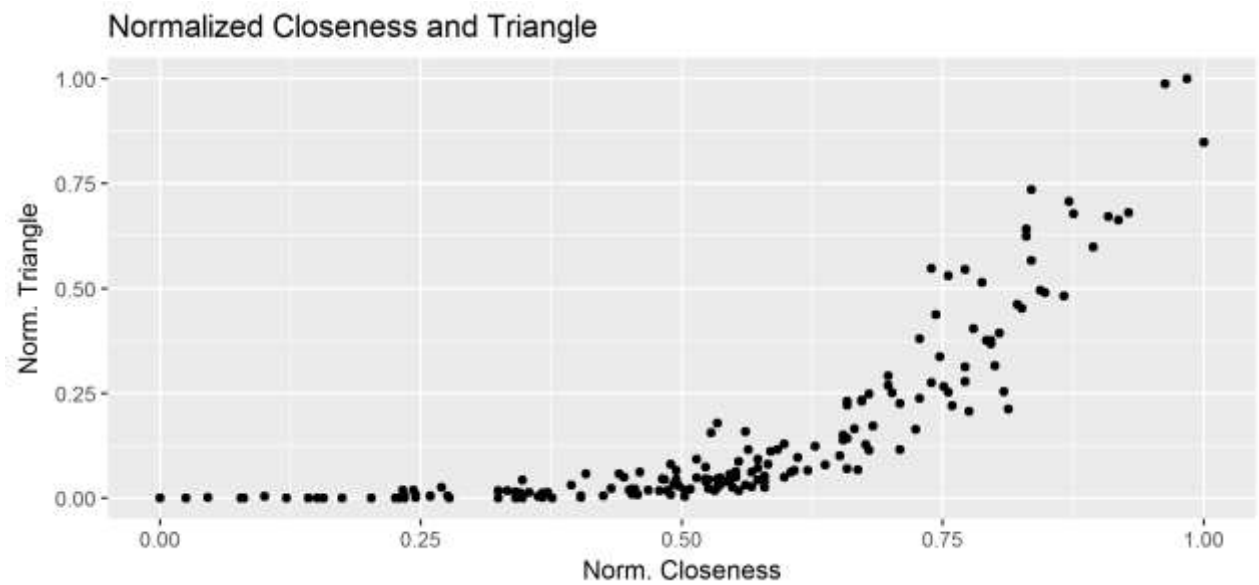


Figure 4.9.0.63 Norm Closeness & Triangles

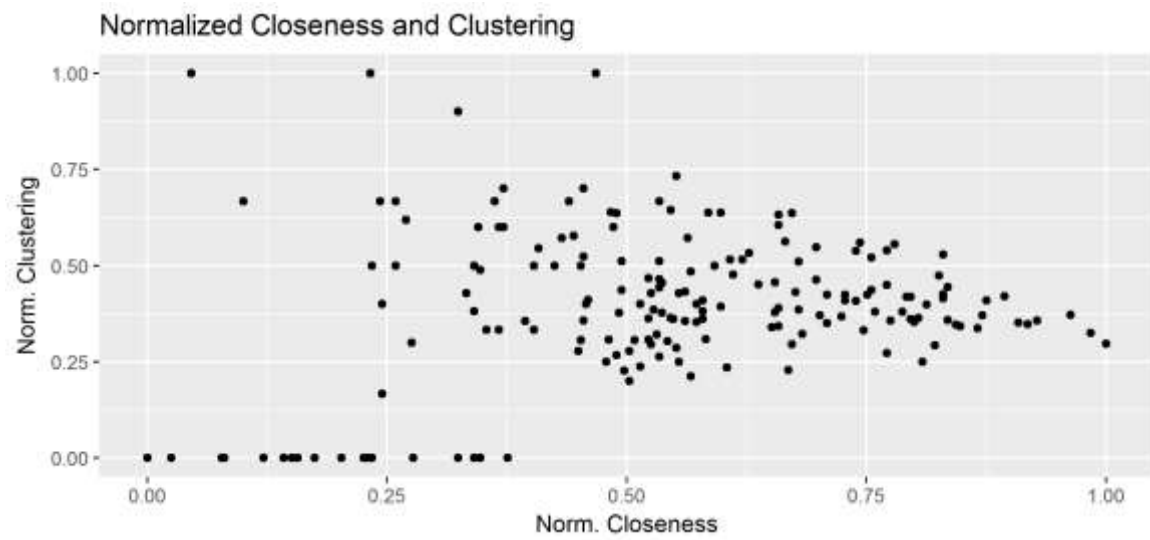


Figure 4.9.0.64 Norm Closeness & Clustering

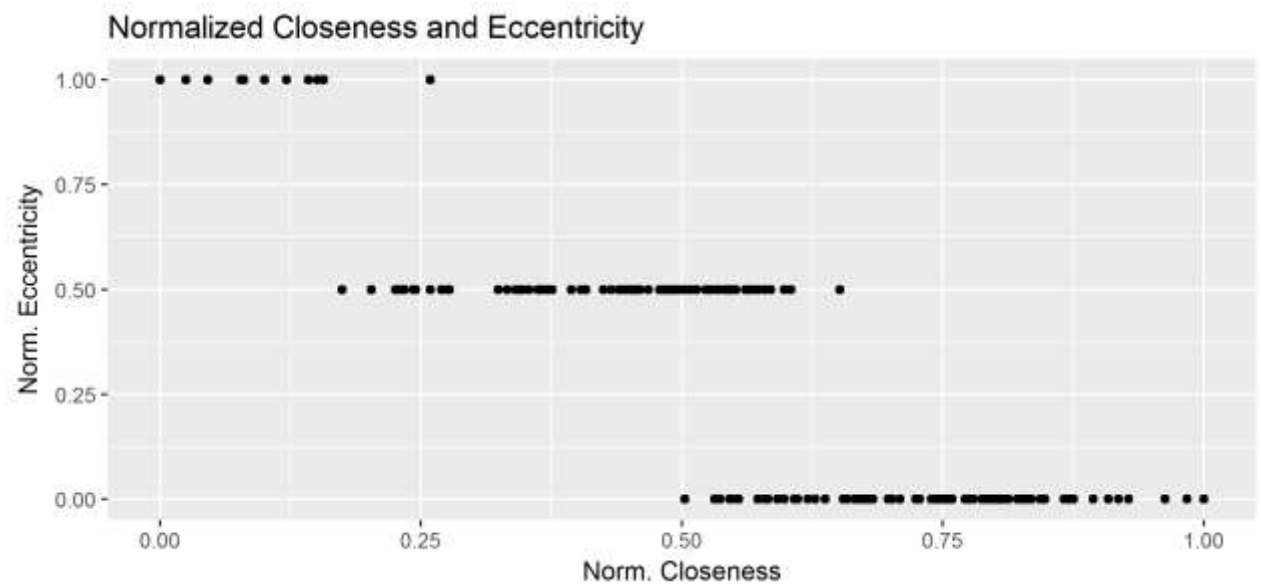


Figure 4.9.0.65 Norm Closeness & Eccentricity

4.3.10 Harmonic closeness centrality

Closeness centrality has some problems; the main feature is that you can't define which vertex is more or less central. So a solution is to “*redefine closeness in terms of the harmonic mean distance between vertices*” [57]. So harmonic closeness centrality is the same as closeness centrality but it gives more weight to closer vertices than those who fall far away. So we will expect more over the same results as the closeness centrality.

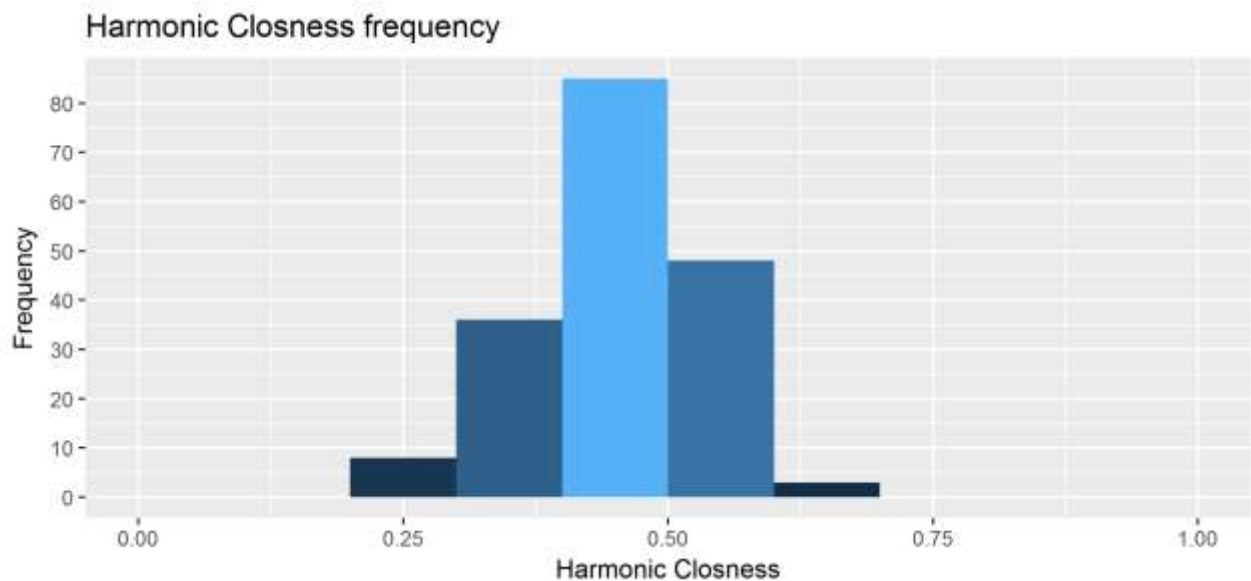


Figure 4.10.0.66 Harmonic Closeness Frequency

Harmonic closeness centrality frequency is moreover a normal distribution. As we observed the respective graphs we see that there no differences at all.

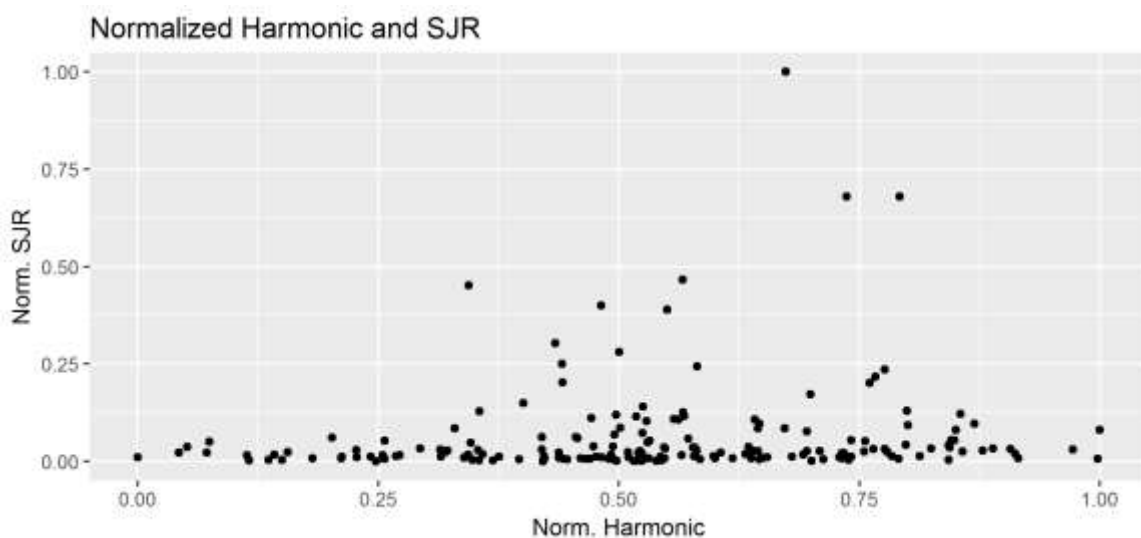


Figure 4.10.0.67 Norm Harmonic Closeness & Sjr

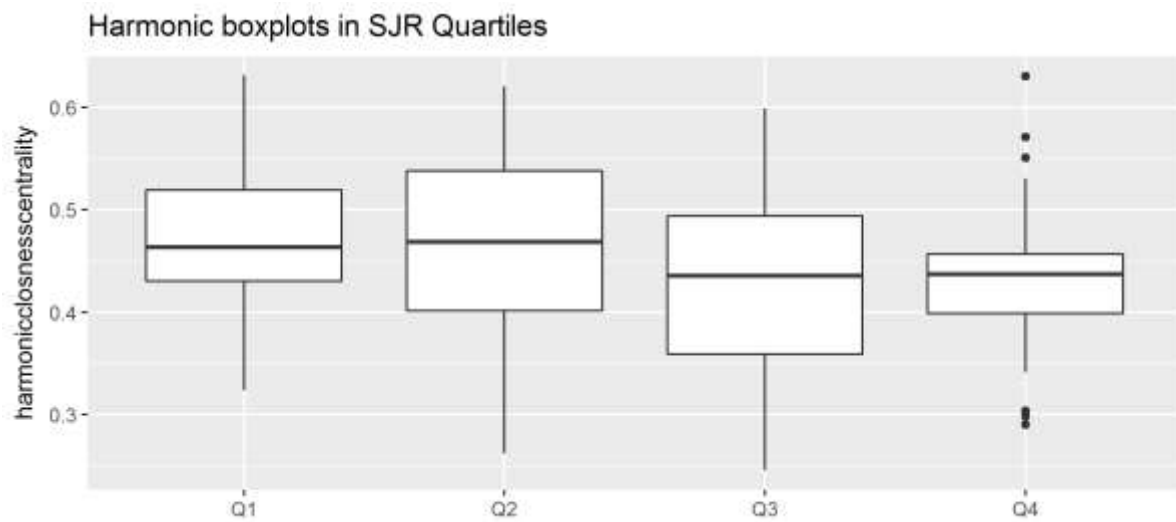


Figure 4.10.0.68 Harmonic Closeness boxplots in sjr quart

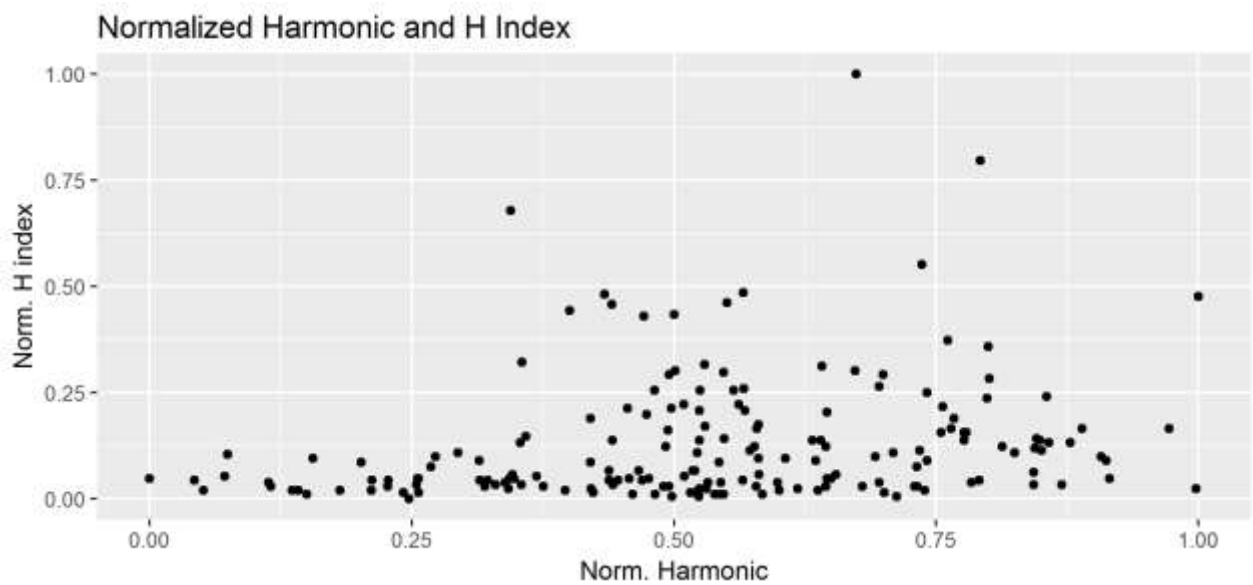


Figure 4.10.0.69 Norm Harmonic Closeness & H index

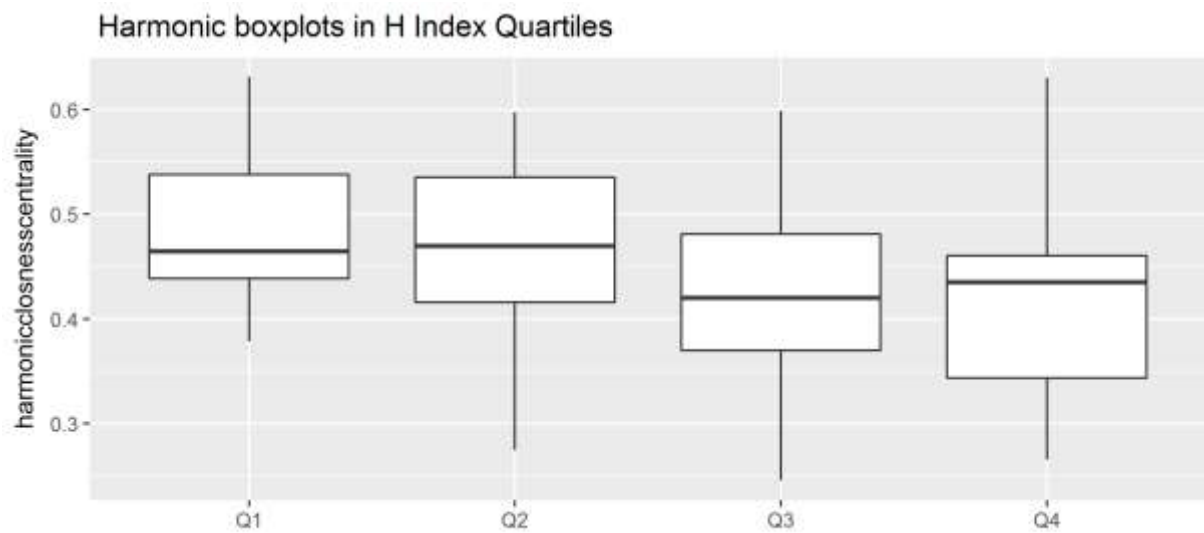


Figure 4.10.0.70 Harmonic Closeness boxplots in h index quart

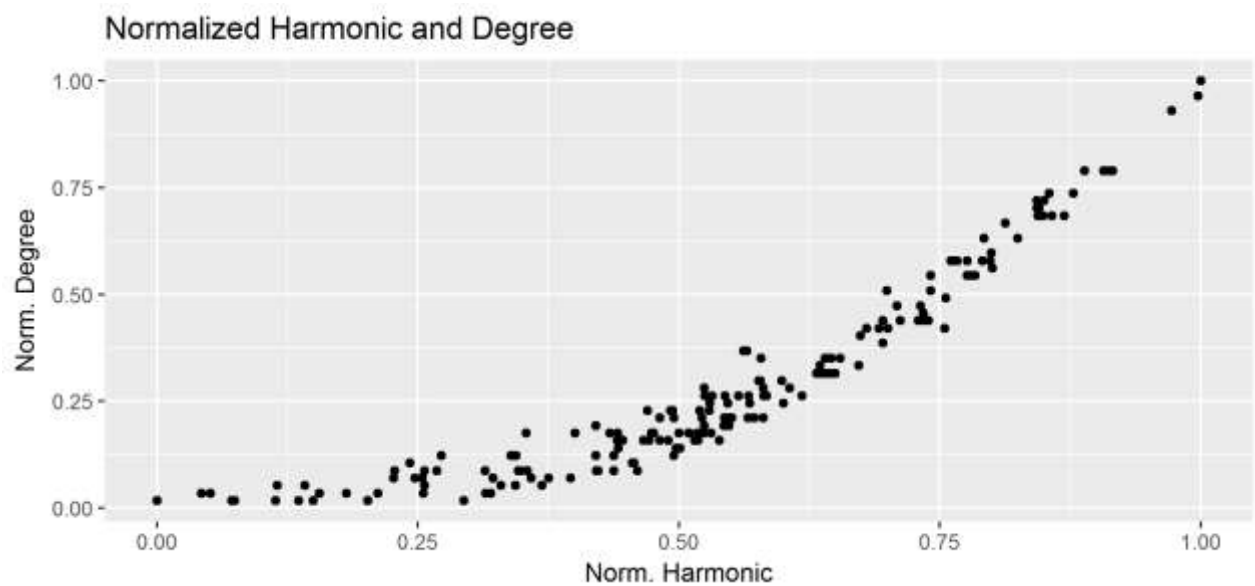


Figure 4.10.0.71 Norm Harmonic Closeness s & Degree

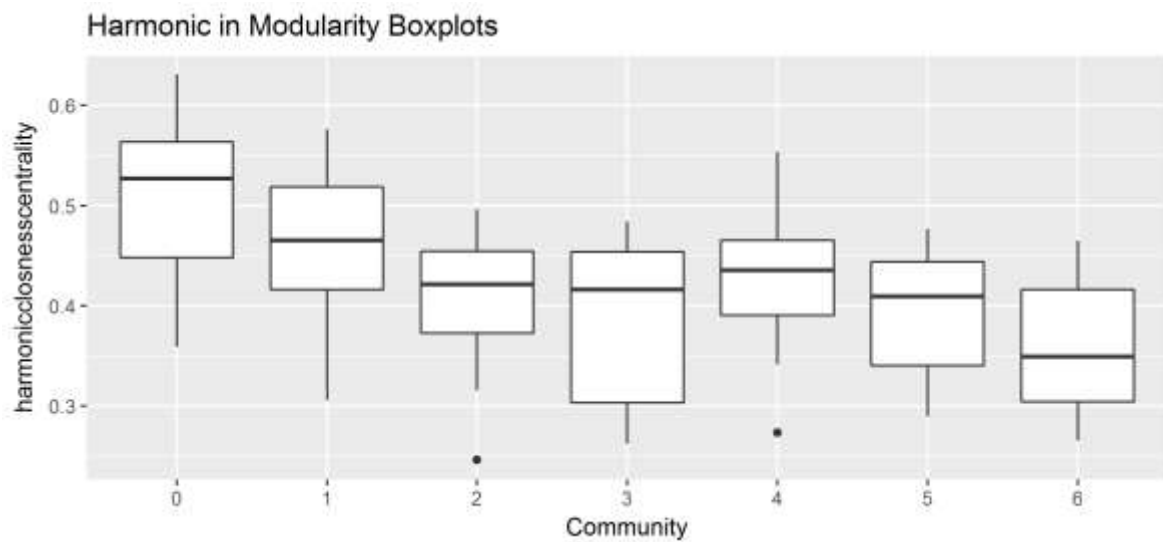


Figure 4.10.0.72 Harmonic Closeness in modularity boxplots

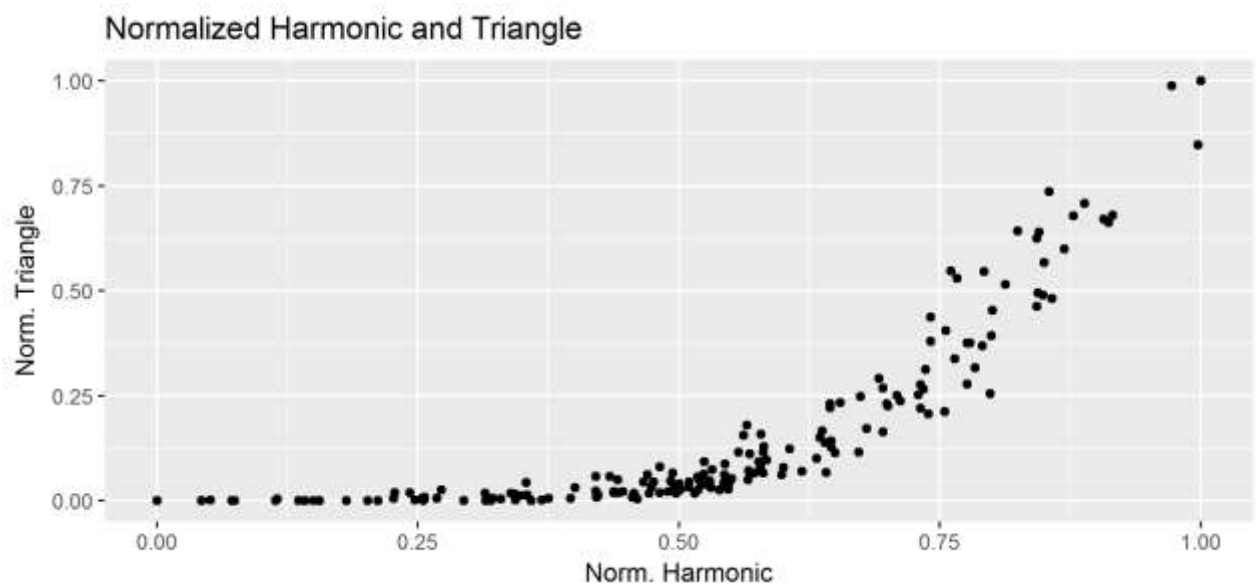


Figure 4.10.0.73 Norm Harmonic Closeness & Triangles

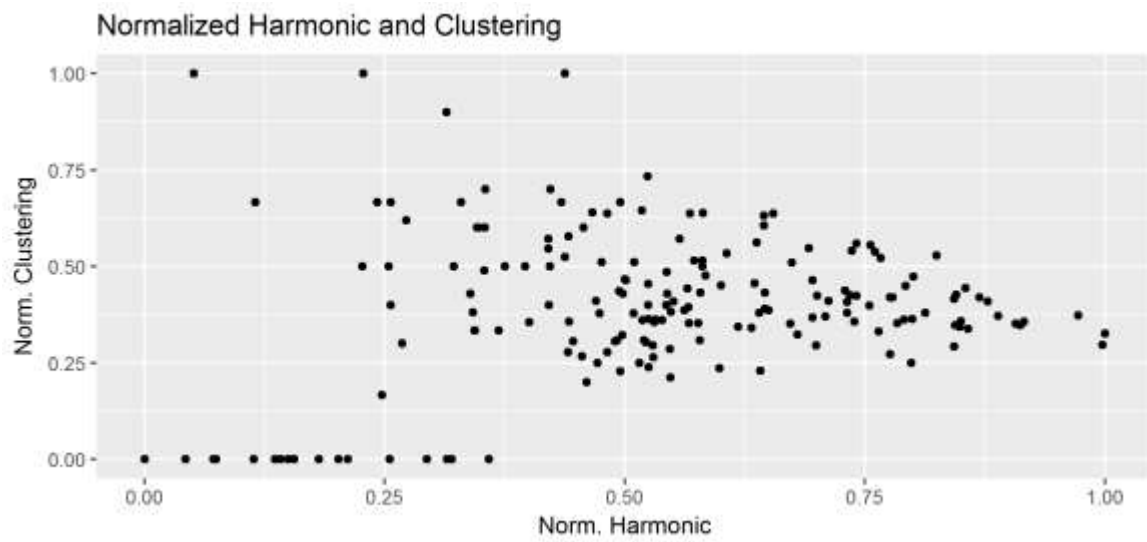


Figure 4.10.0.74 Norm Harmonic Closeness & Clustering

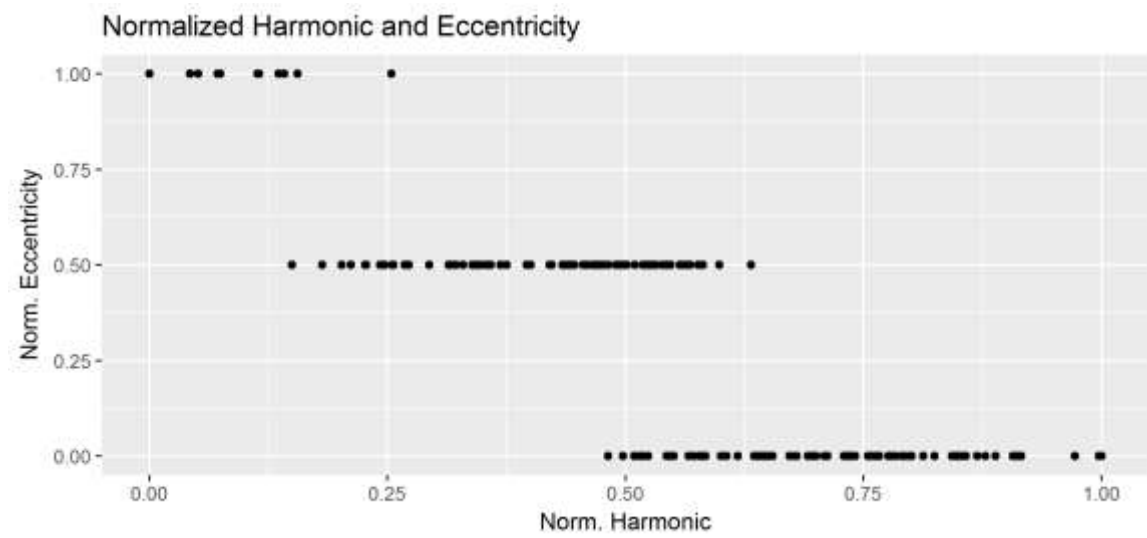


Figure 4.10.0.75 Norm Harmonic Closeness & Eccentricity

4.3.11 Eigenvector Centrality

Eigenvector Centrality is a step forward of the degree centrality. The difference is that eigenvector gives a proportional score by its neighbor's importance than just a single value like the degree [57]. Eigenvector can be high scored for two reasons, first because the neighbor is very important or secondly it has many connections and from the first reason we can see journals that have less connection but have an important role in the network. Table 9.1 shows us the top 15 journals with the highest eigenvectors.

Journal	Eigenvector	Normalized Eigenvector	Rank
journal_of_banking_and_finance	1.000	1.00	1
pacific_basin_finance_journal	0.995	0.99	2
review_of_development_finance	0.927	0.93	3
journal_of_financial_intermediation	0.838	0.84	4
journal_of_financial_services_research	0.834	0.83	5
journal_of_financial_research	0.829	0.83	5
international_journal_of_managerial_finance	0.822	0.82	6
emerging_markets_finance_and_trade	0.810	0.81	7
international_review_of_financial_analysis	0.794	0.79	8
journal_of_international_financial_markets_institutions_and_money	0.790	0.79	8
north_american_journal_of_economics_and_finance	0.786	0.78	9
journal_of_fixed_income	0.772	0.77	10
international_review_of_finance	0.771	0.77	10
journal_of_financial_economics	0.725	0.72	11
journal_of_financial_stability	0.723	0.72	11

Table 39 Top 15 Eigenvectors

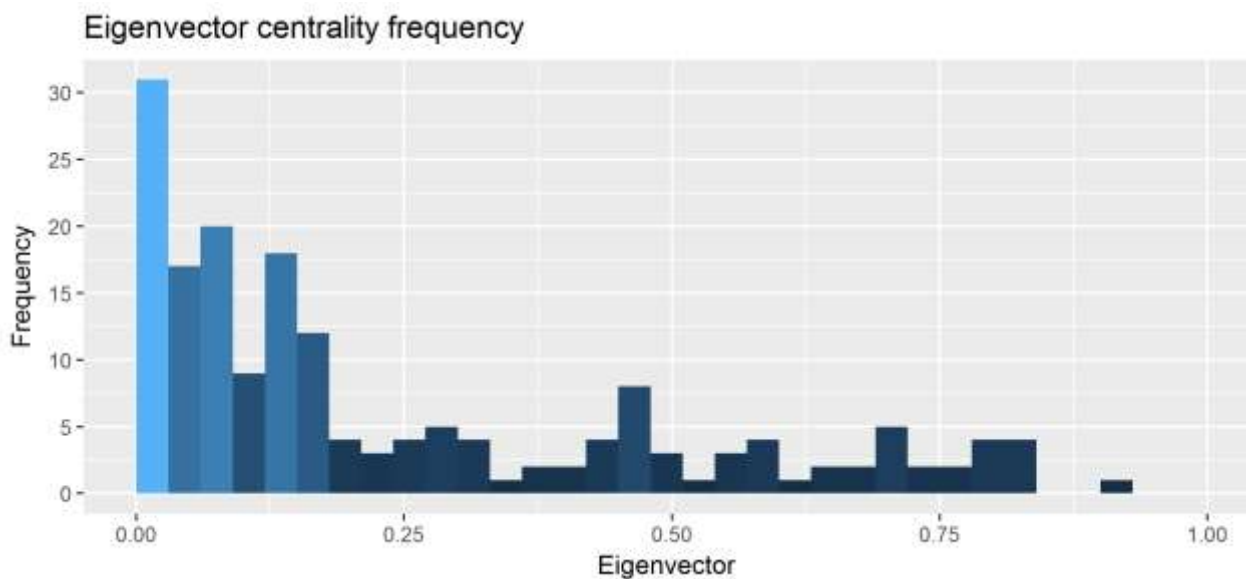


Figure 4.11. 0.76 Eigenvector Frequency

From the eigenvector frequency graph it's observed that eigenvector is a right skewed distribution. Most observations are between 0 and 0.03. Also for eigenvector SJR and H Index indicators haven't any influence. Eigenvector is almost equally distributed in the Q1 and Q2 SJR quartiles with Q3 and Q4 been smaller with some outliers. H index follows the same principle but Q3 is the smaller with many outliers. As we expected, eigenvector and the degree centrality are linear related, this is also observed from fig. 4.11.0.99. Also eigenvector is linear related with the triangles with the difference that as the triangles increase also does the slope of the regression line. In fig 4.11.0.100 eigenvector is distributed in modularity communities boxplots and the first two communities, 0 and 1, hold the majority of the observations just like in fig. 4.3.0.37 (Normalized Degree in Modularity Boxplots) but then there are some differences. Community 5 is the smallest and communities 2,3,4 and 6 are smaller than in fig. 4.3.0.37 and almost equal with community 4 having some outliers and community 6 having the median nearly to its first quartile. Clustering's regression line again has a weird shape and it's not linear with the eigenvector.

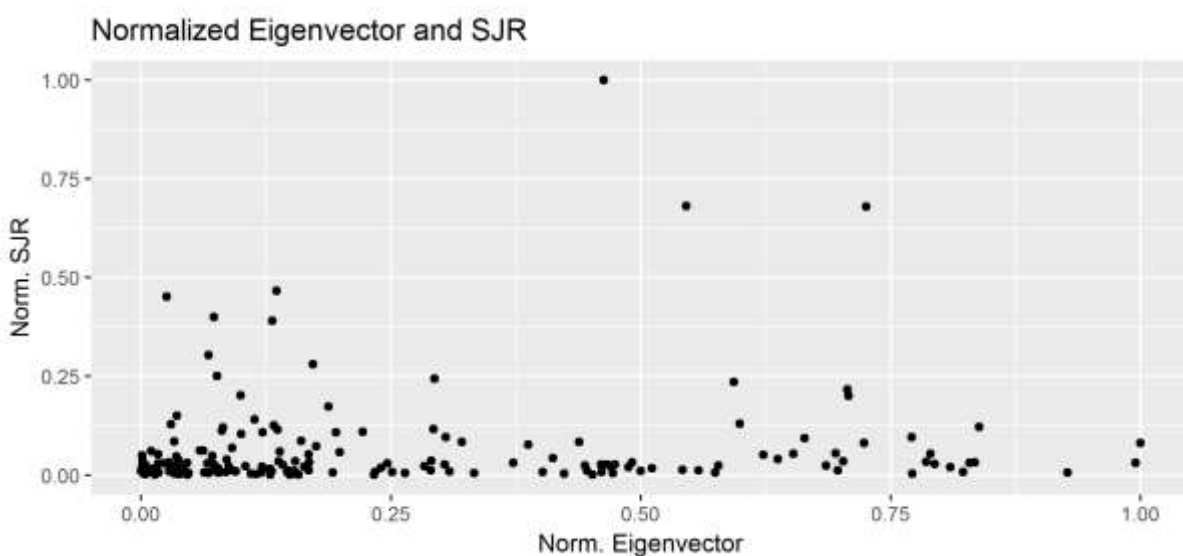


Figure 4.11.0.77 Norm Eigenvector & Sjr

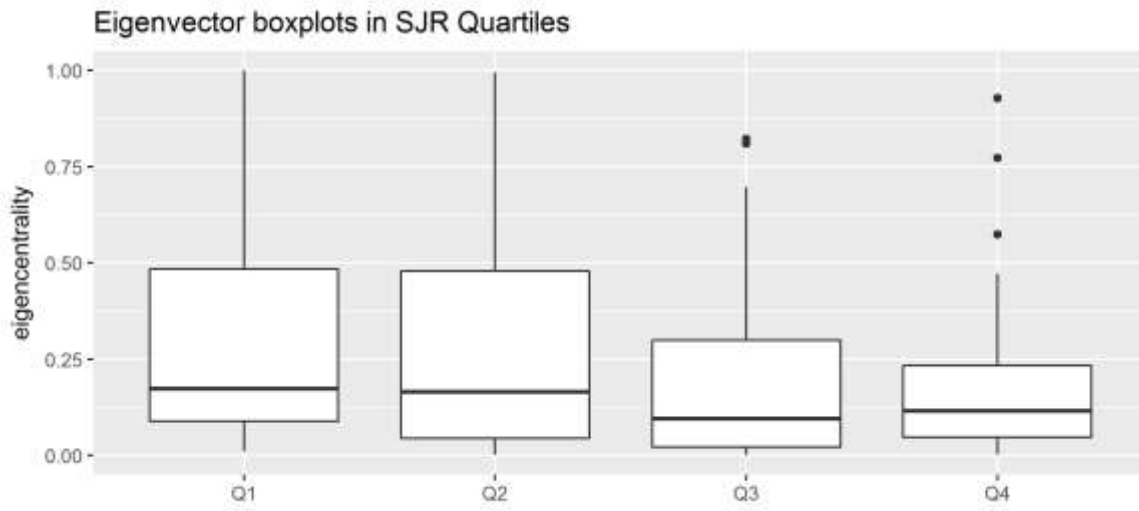


Figure 4.11.0.78 Eigenvector boxplots in sjr quart.

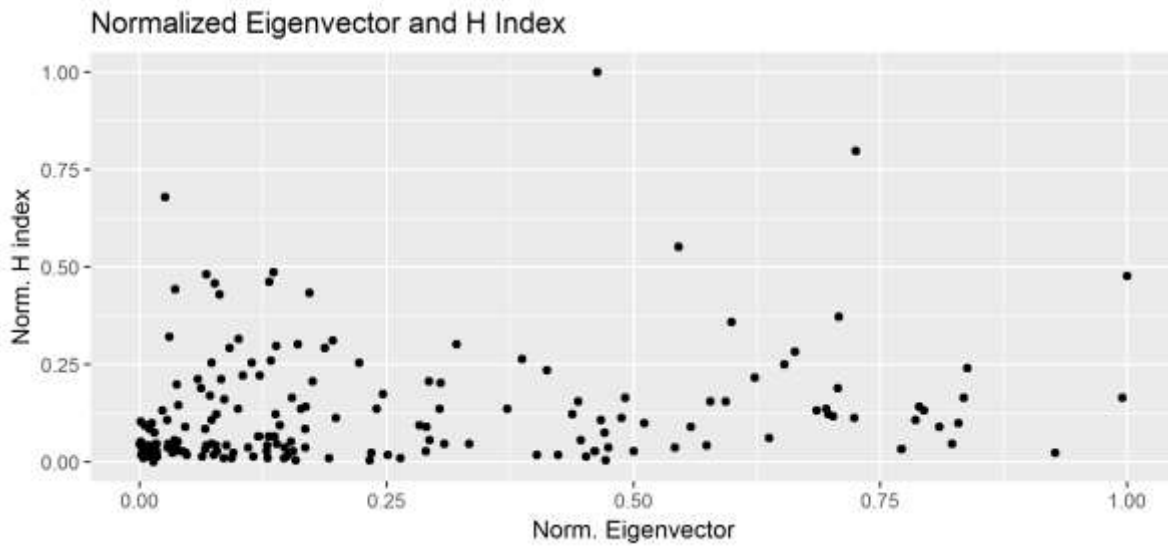


Figure 4.11.0.79 Norm Eigenvector & H index

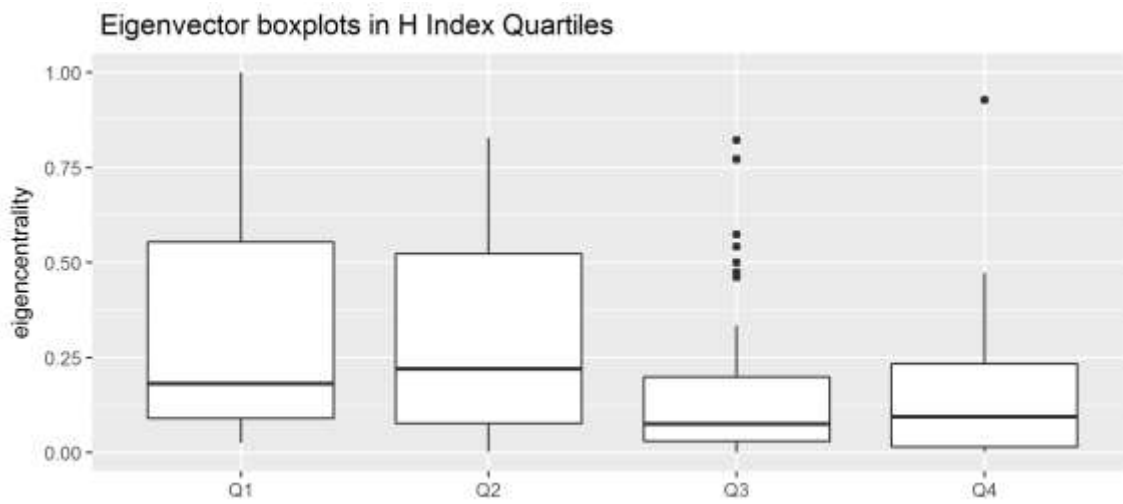


Figure 4.11.0.80 Eigenvector boxplots in h index quart

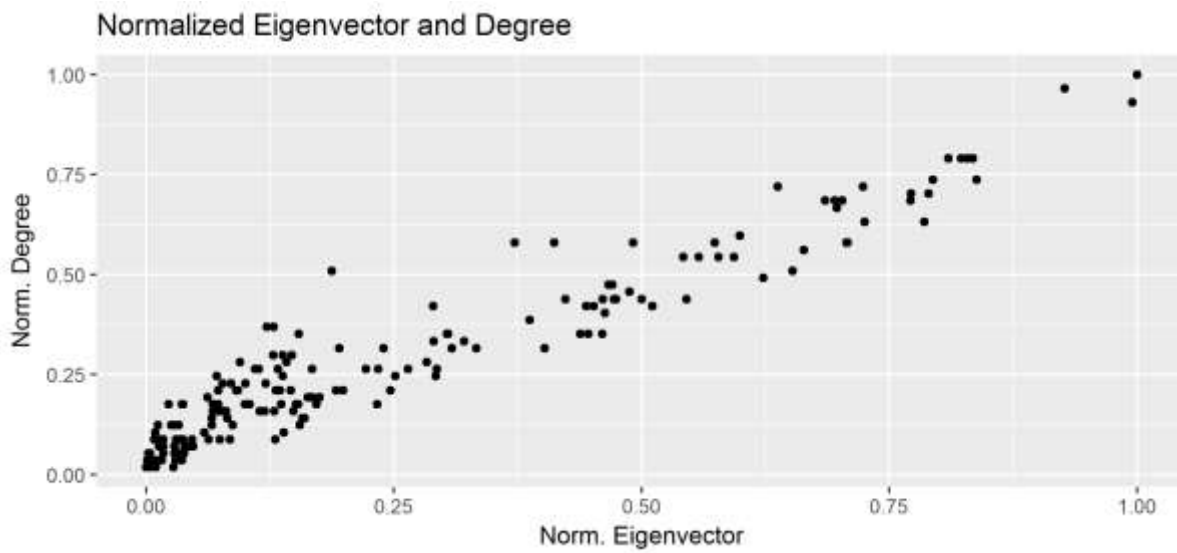


Figure 4.11.0.81 Norm Eigenvector & Degree

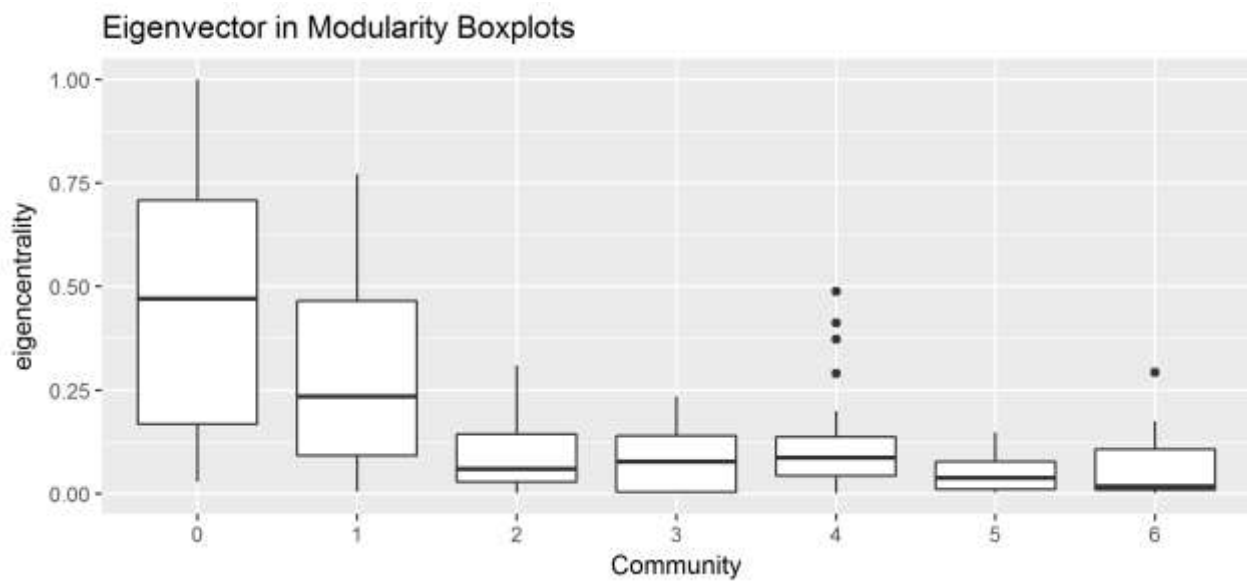


Figure 4.11.0.82 Eigenvector in modularity boxplots

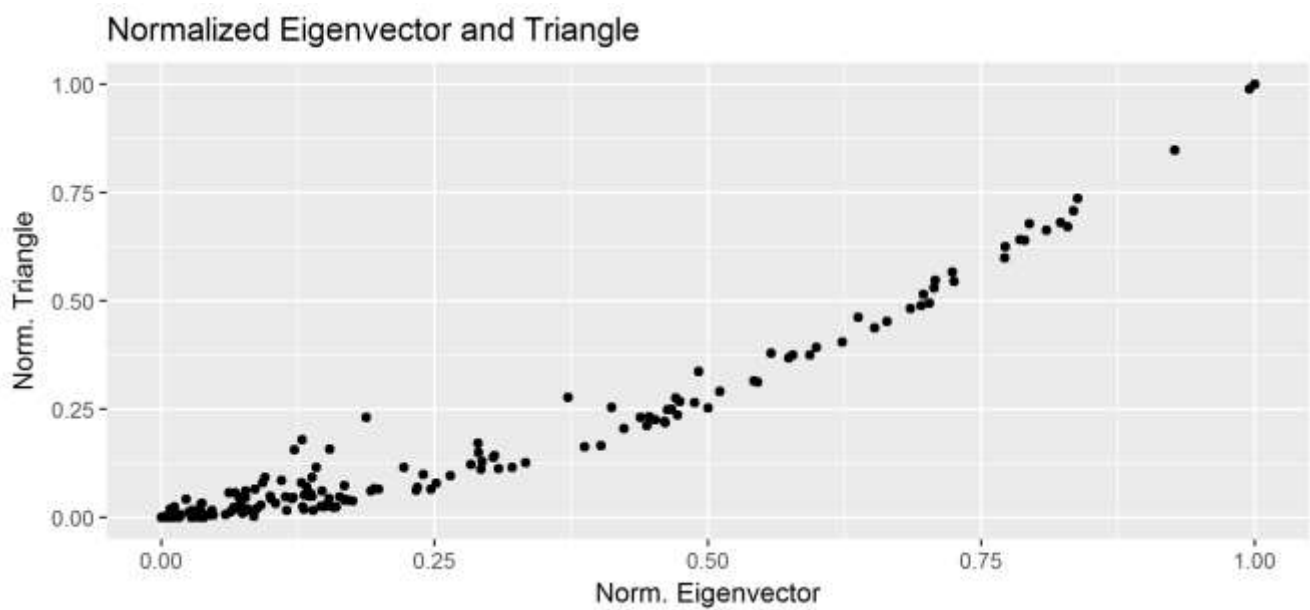


Figure 4.11.0.83 Norm Eigenvector & Triangles

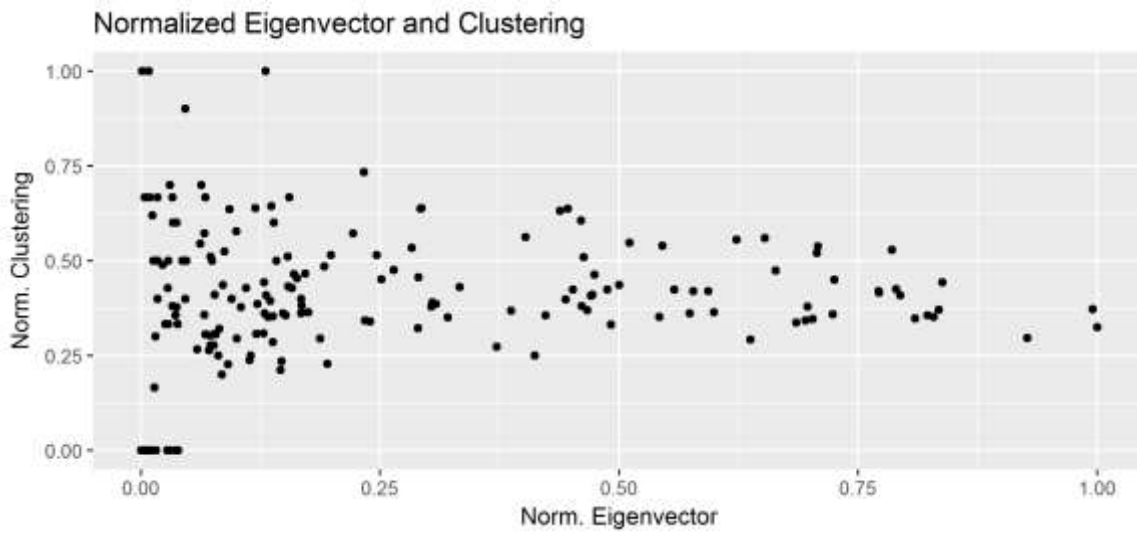


Figure 4.11.0.84 Norm Eigenvector & Clustering

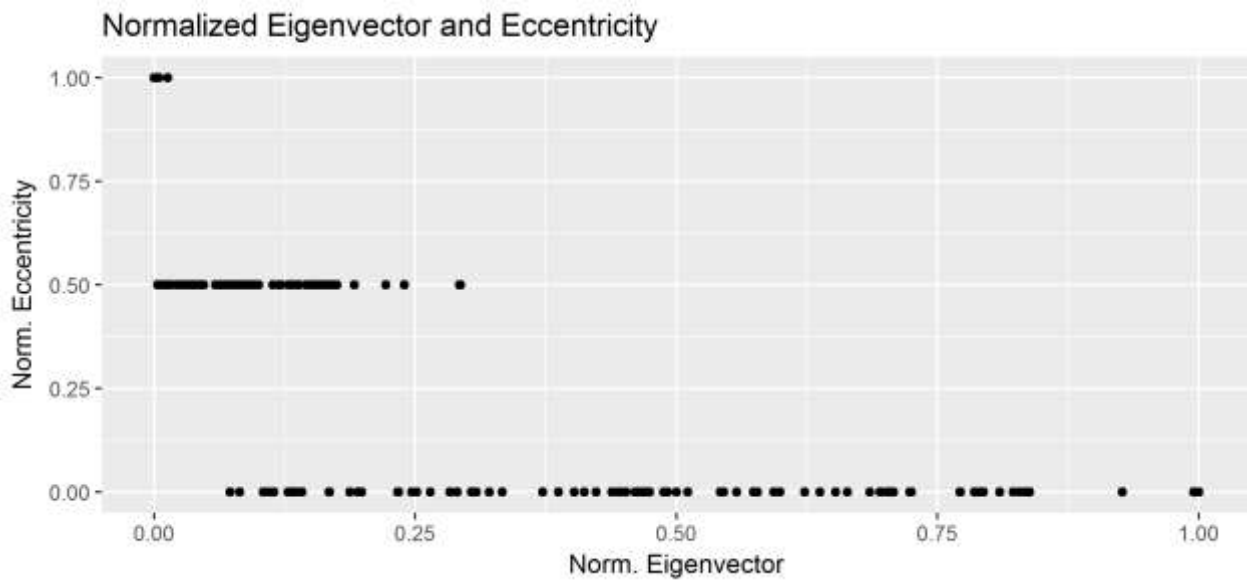


Figure 4.11.0.85 Norm Eigenvector & Eccentricity

4.3.12 Hubs and Authorities

Hubs and authorities are another centralities that show which vertices hold important information and which ones are the best ones. Authorities can point the vertices and Hubs point the best Authorities and also the opposite in the occasion of directed networks. Here, where we have an undirected network, Hubs and Authorities are equal as there isn't any direction to point. For our calculations we used randomly used the Hubs indicator instead of the Authority. Hubs and Authorities also called HITS from the algorithm develop by Kleinberg *hyperlink-included topic search* [57].

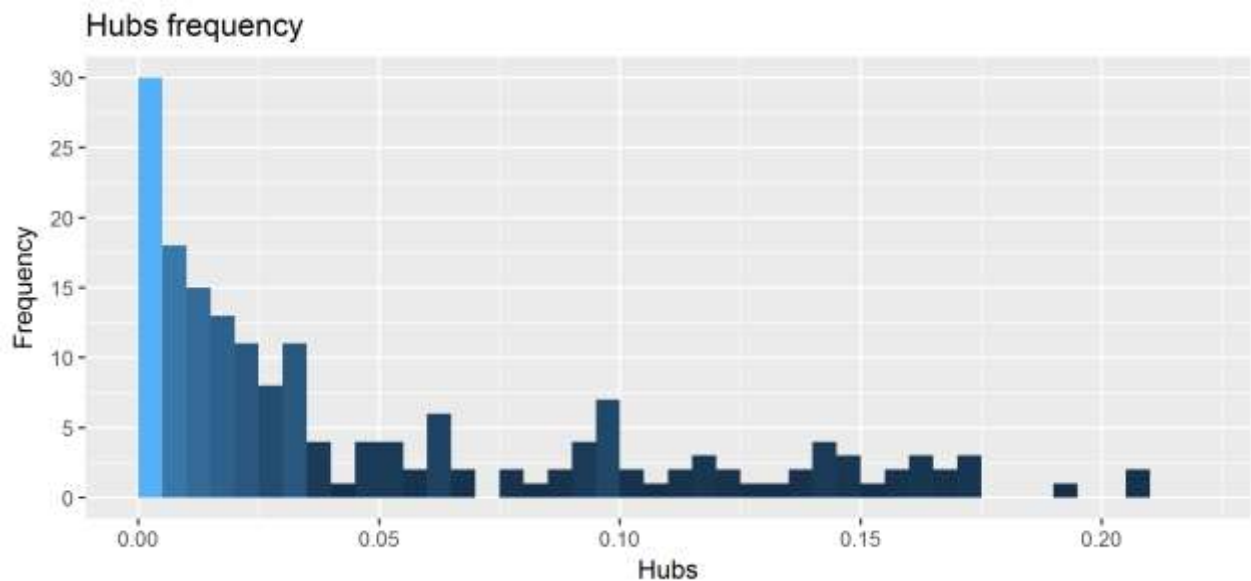


Figure 4.12.0.86 HITS Frequency

HITS frequency graph shows that HITS is also a right skewed distribution with the majority of it's observations between 0 and 0.005. Both SJR and H index indicators, just as in the previous centralities, don't hany any relation with HITS. HITS is almost equal in Q1 and Q2 SJR boxplots with 3 outliers in Q3 and Q4. The same feature is with H index boxplots but Q4 is bigger with one outlier and Q3 containt many extreme values. Again the degree and the triangles are linear related and as the triangles increases also does the slope of the regression line. An observation to be made is that in, for the triangles, until a certain point 0.3 the line is very close to zero and after 0.5 the slope soars. This means that for low triangles the triangle HITS relation is almost zero but it exponential as the triangles increases. Clustering dooesn't affect HITS.

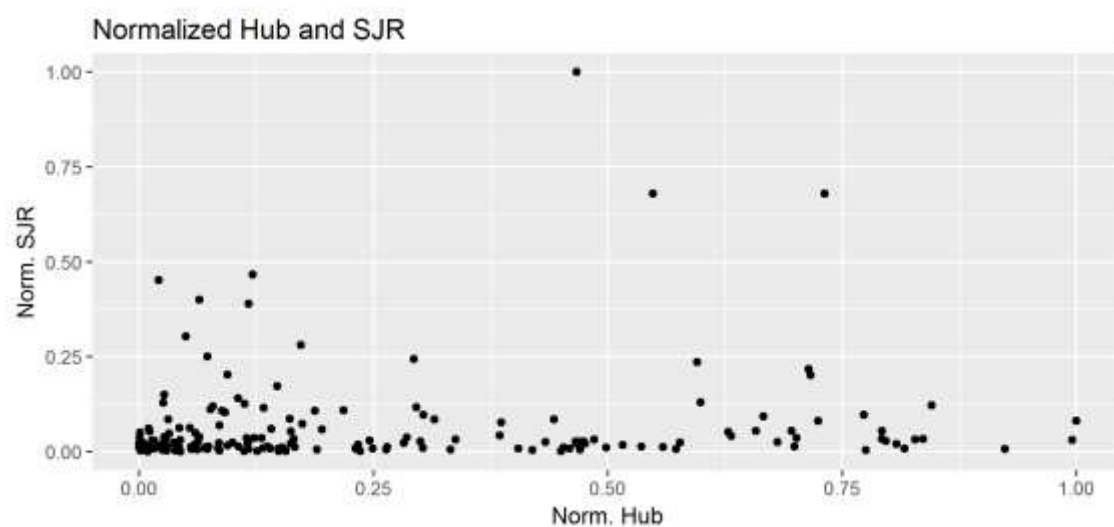


Figure 4.12.0.87 Norm HITS & Sjr

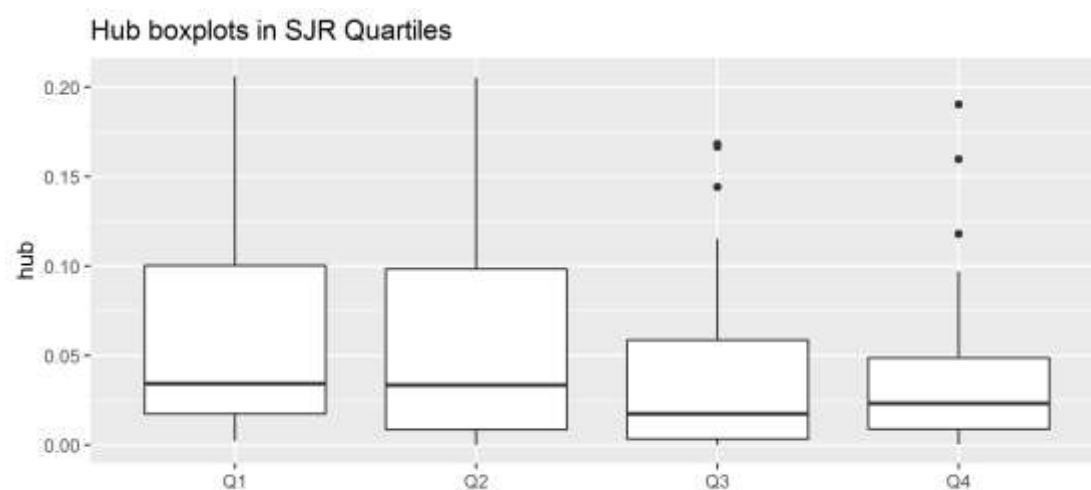


Figure 4.12.0.88 HITS boxplots in sjr quart.

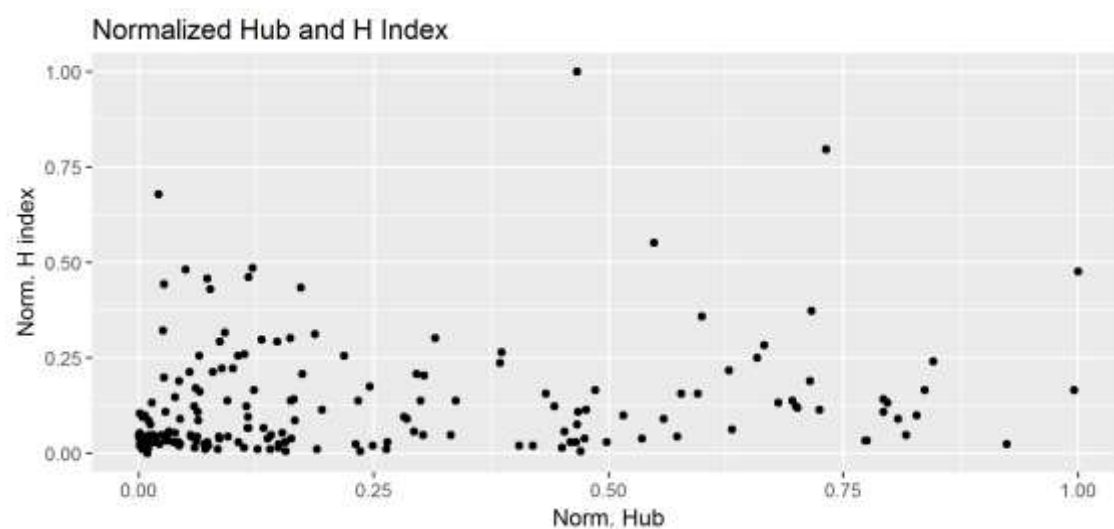


Figure 4.12.0.89 Norm HITS & H index

Figure 10.4

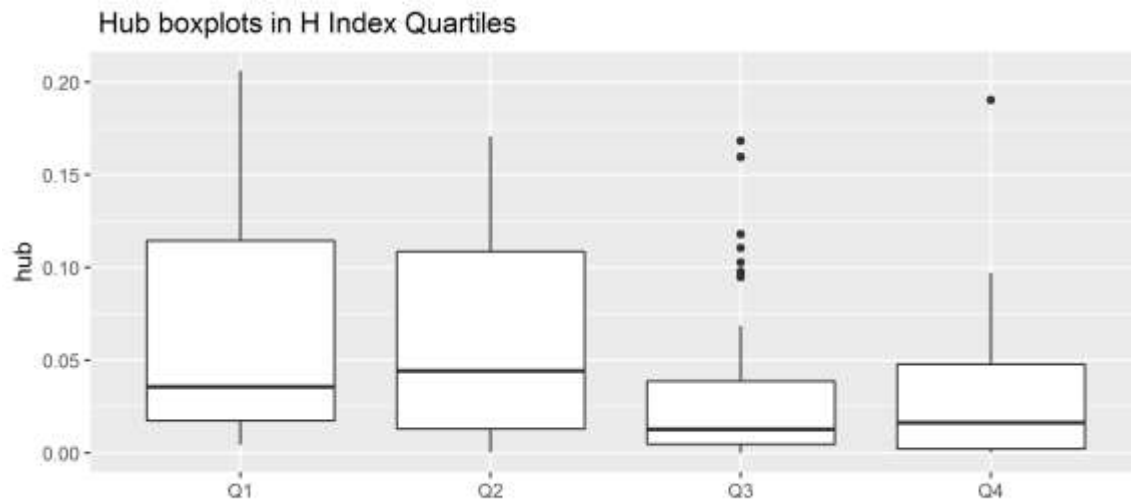


Figure 4.12.0.90 HITS boxplots in h index quart

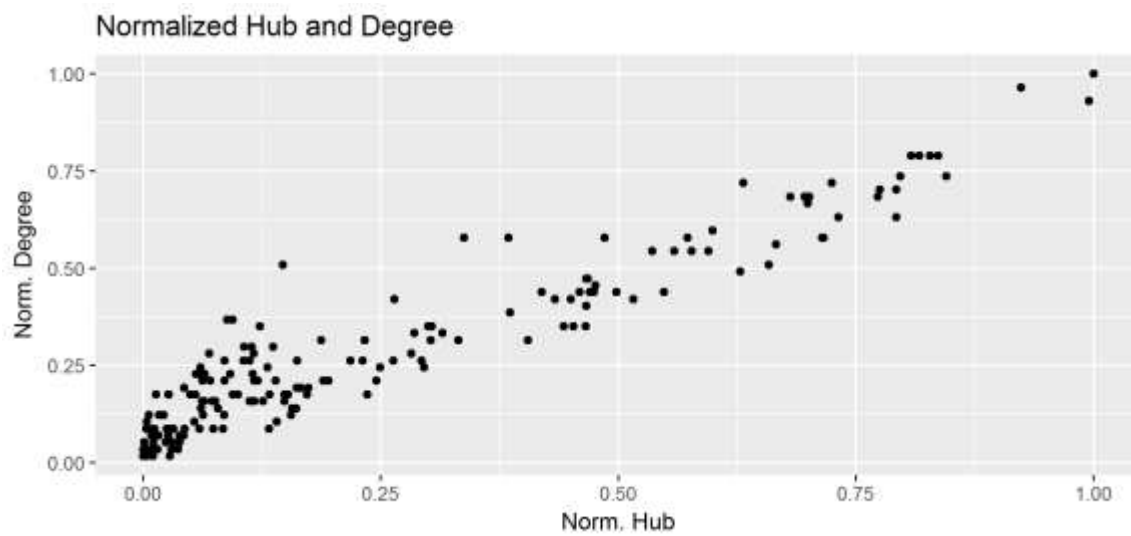


Figure 4.12.0.91 Norm HITS & Degree

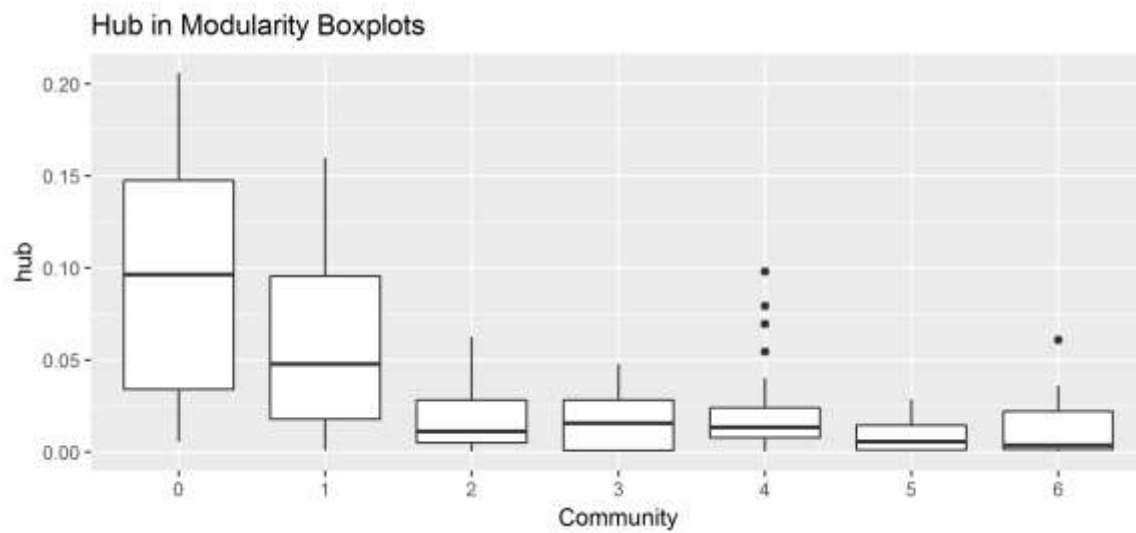


Figure 0.92 HITS in modularity boxplots

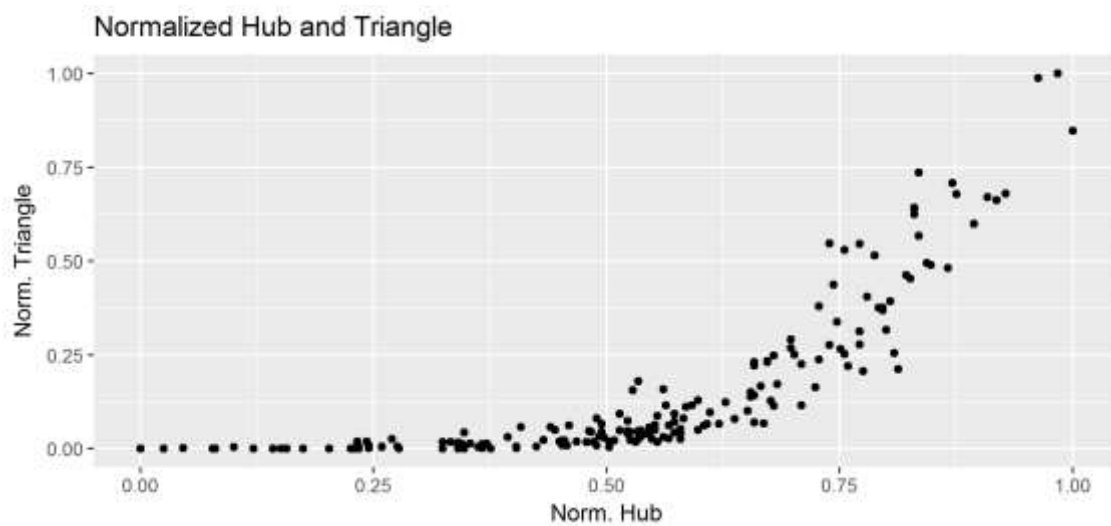


Figure 4.12.0.93 Norm HITS & Triangles

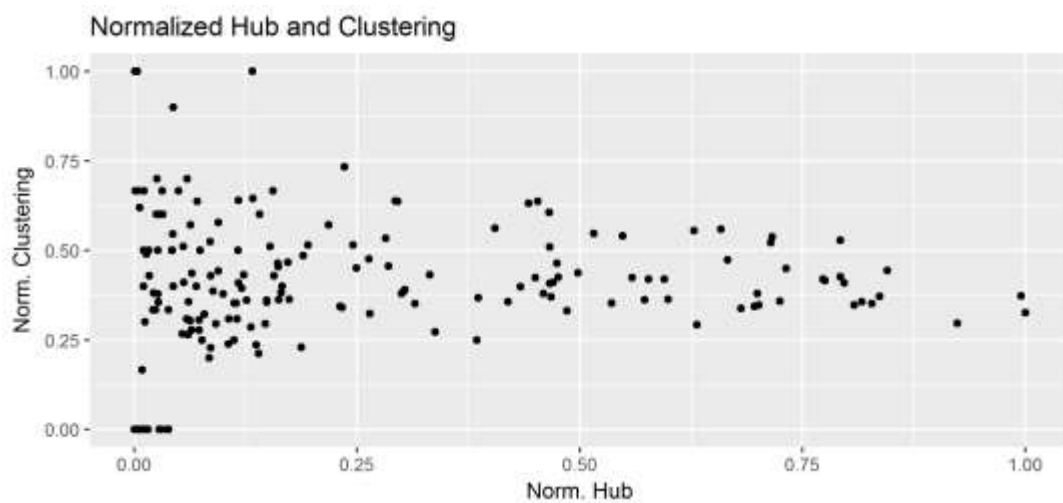


Figure 4.12.0.94 Norm HITS & Clustering



4.3.13 Page Rank

PageRank is the centrality where if a vertex has no outgoing edges it doesn't increase their measure even if they are connected with the most central vertex, and measures how many times a vertex has been pointed. Pagerank is an improvement of Katz centrality, where if a central vertex is point to 10 vertices these 10 vertices gain high centrality. Google is the one who give the name "PageRank" to Katz centrality improvement.

So PageRank count the most common vertex which has been cited by others, to fully understand it's like the googles search engine, when you start typing a word it gives you some choices, these choices are the most common searches by Google's users.

Rank	Journal	pageranks	Norm.Page	Rank PageRank
42	journal_of_banking_and_finance	0.0158	1.000	1
167	review_of_development_finance	0.0154	0.972	2
81	pacific_basin_finance_journal	0.0142	0.892	3
74	journal_of_financial_services_research	0.0130	0.809	4
109	emerging_markets_finance_and_trade	0.0128	0.793	5
151	international_journal_of_managerial_finance	0.0126	0.781	6
78	journal_of_financial_research	0.0122	0.752	7
63	annals_of_finance	0.0119	0.735	8
43	journal_of_financial_stability	0.0116	0.712	9
25	journal_of_financial_intermediation	0.0115	0.711	10
86	international_review_of_financial_analysis	0.0113	0.698	11
55	journal_of_international_financial_markets_institutions_and_money	0.0111	0.683	12
94	review_of_quantitative_finance_and_accounting	0.0109	0.667	13
182	journal_of_fixed_income	0.0109	0.666	14
52	international_review_of_economics_and_finance	0.0108	0.661	15

Table 40 Top 15 Pageranks

```
summary(Giant.Norm$pageranks)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.001063 0.003074 0.004657 0.005450 0.007167 0.015800
```

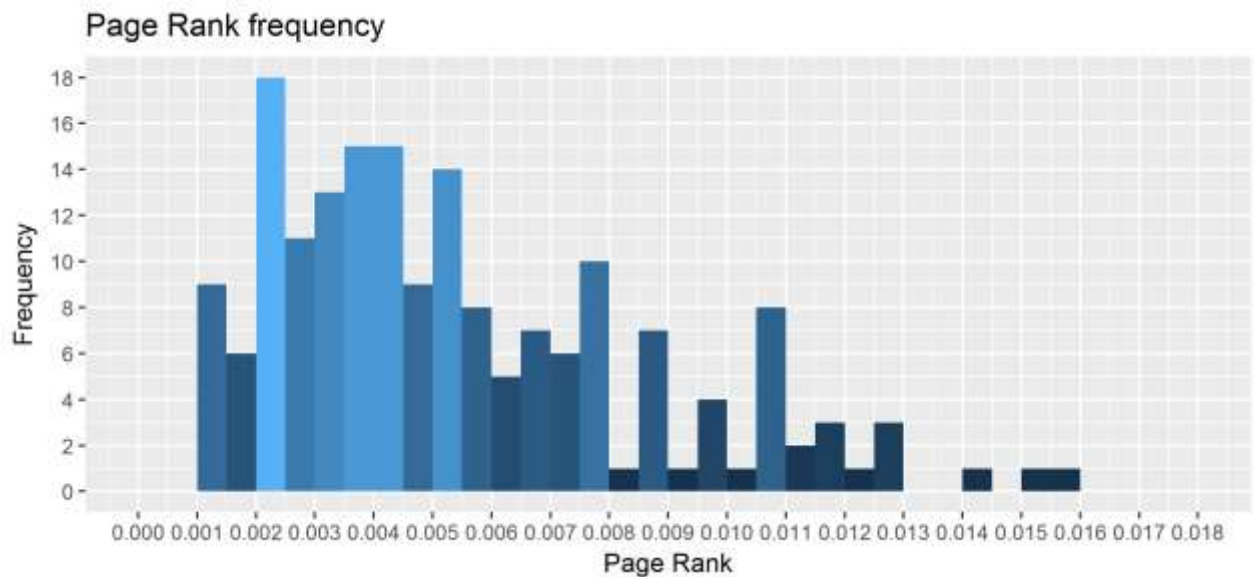


Figure 4.13.0.96 Pageranks Frequency

From the PageRank frequency graph we see that our observations are right skewed but tend to create a bell curve. Pagerank values vary from 0.001063 to 0.0158. Most are between 0.002 and 0.0025 precisely 18 journals lay in that class. Not surprisingly we see that for pagerank all measurement follow the same principles just as all the other centralities. SJR and H index are not linear related with the centrality, Q2 SJR and H index quartile has the most observations and Q4 is the smaller containing the greatest values for SJR and H Index. Degree and Triangle are linear related. For the first time we see that the degree regression line is a $y=x$ line, so the degree is multiple of Pagerank. Triangles and pageranks create an exponential line. Clustering at first increases as pagerank does but then the regression line twists and the slope becomes negative, so there isn't any linear relation between clustering and pagerank.

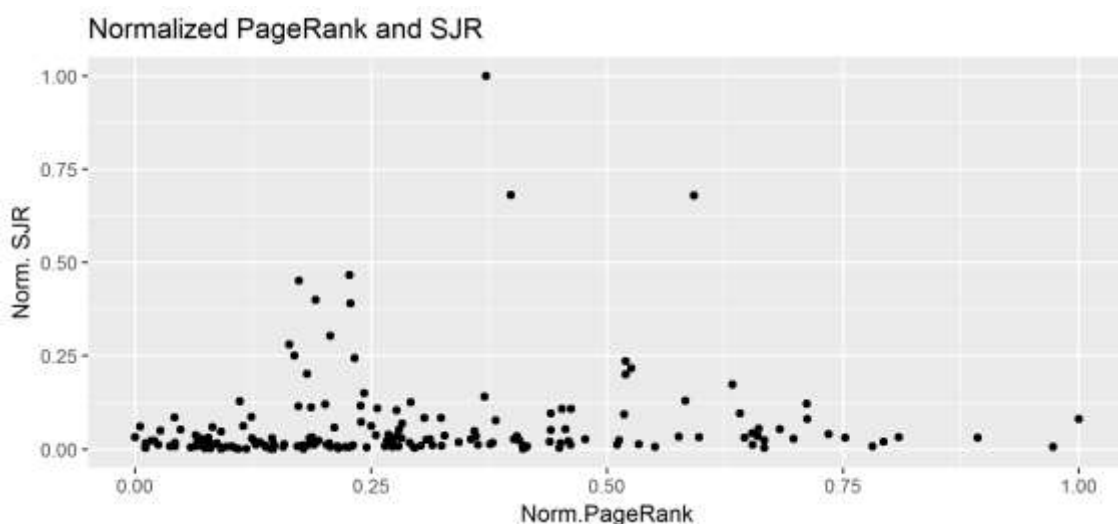


Figure 4.13.0.97 Norm Pageranks & Sjr

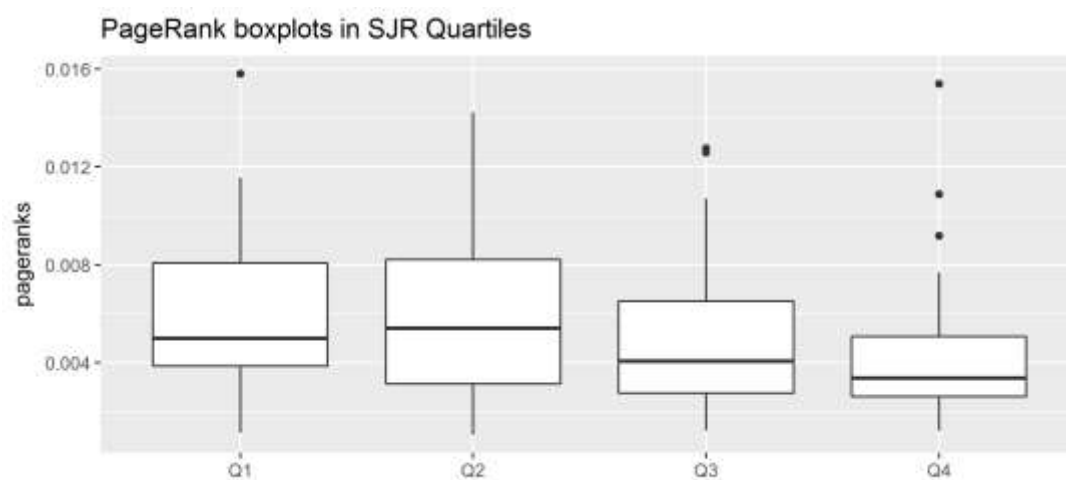


Figure 4.13.0.98 Pageranks boxplots in sjr quart.

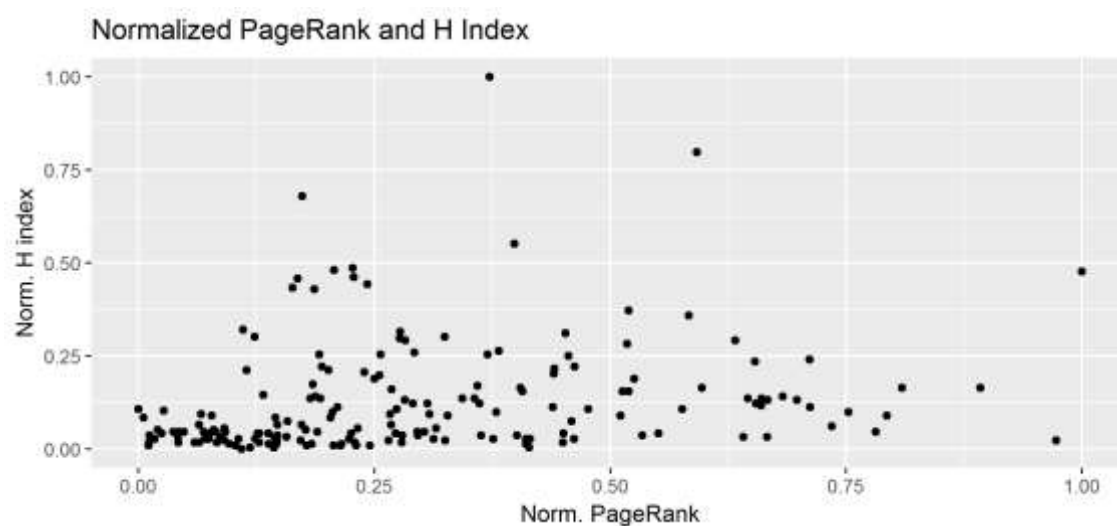


Figure 4.13.0.99 Norm Pageranks & H index

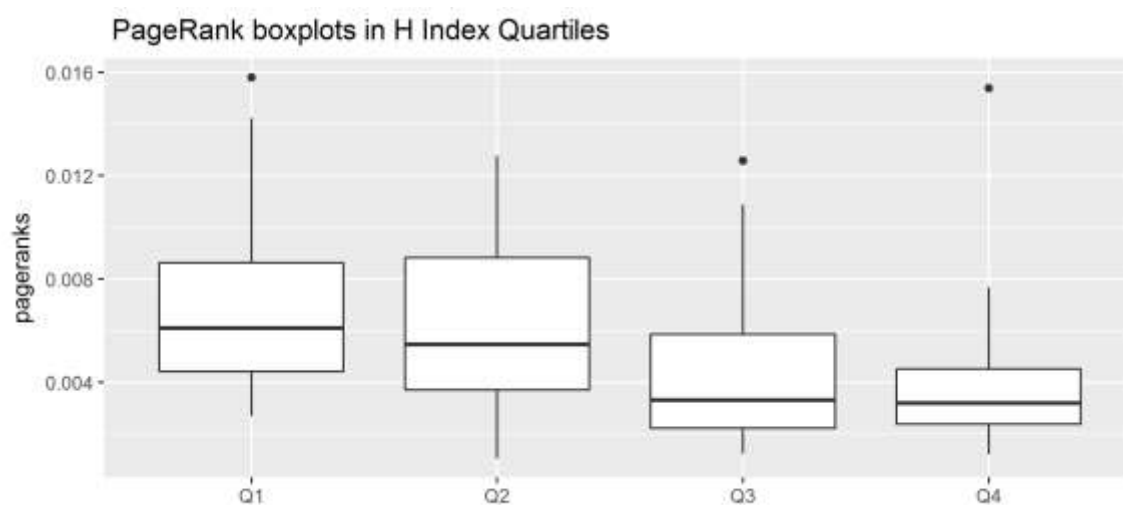


Figure 4.13.0.100 Pageranks boxplots in h index quart

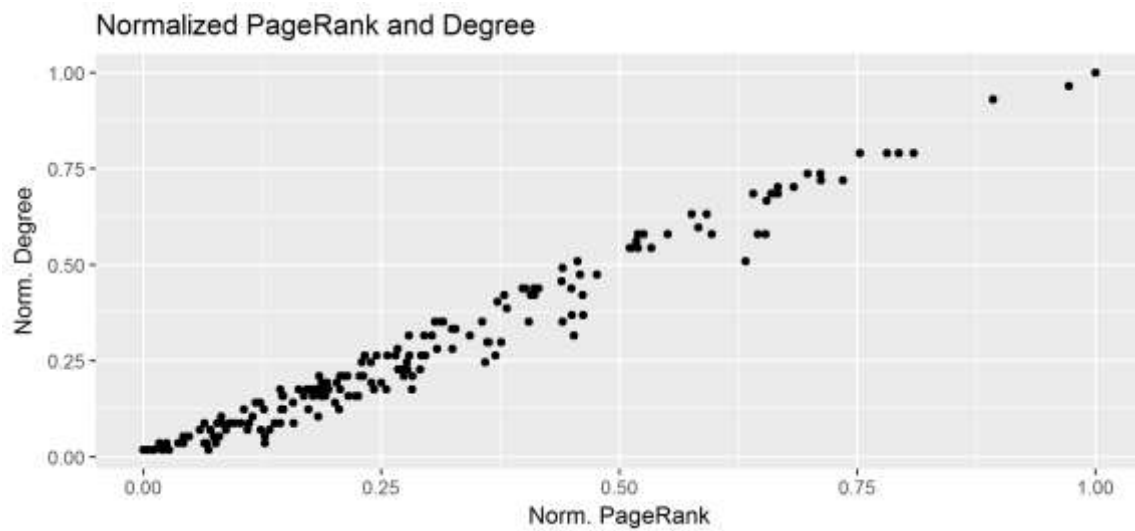


Figure 4.13.0.101 Norm Pageranks & Degree

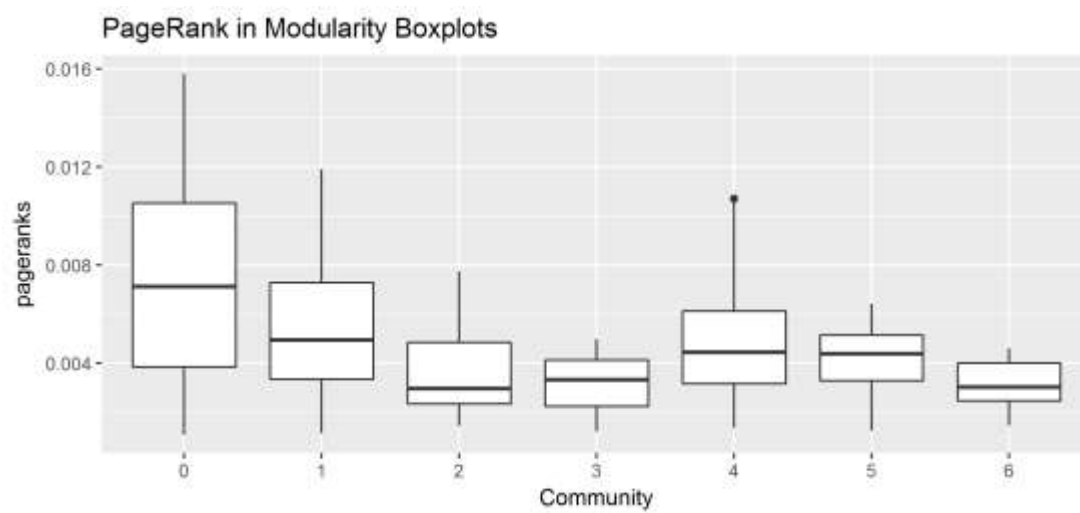


Figure 4.13.0.102 Pageranks in modularity boxplots

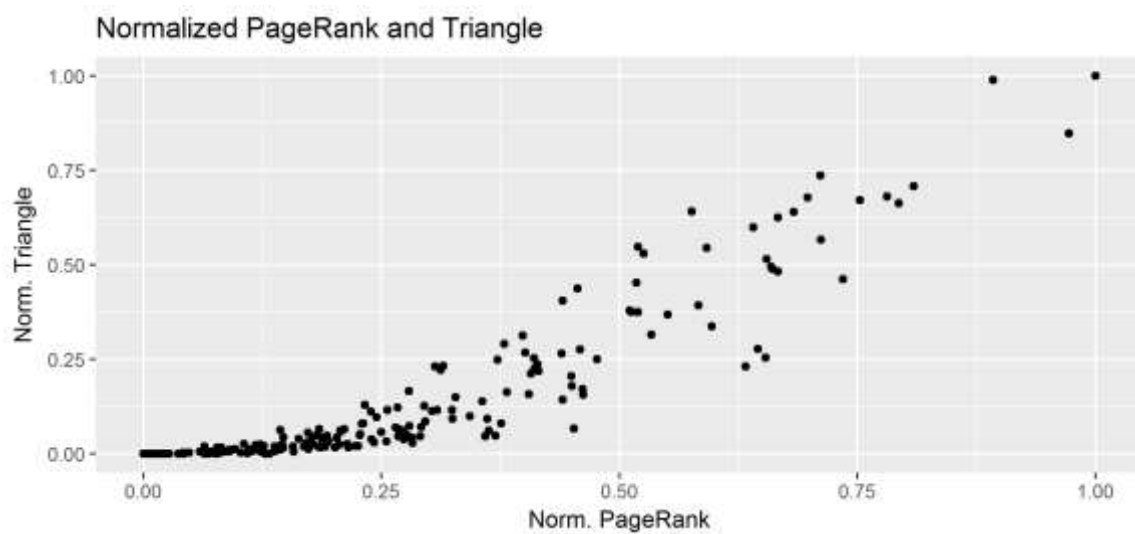


Figure 4.13.0.103 Norm Pageranks & Triangles

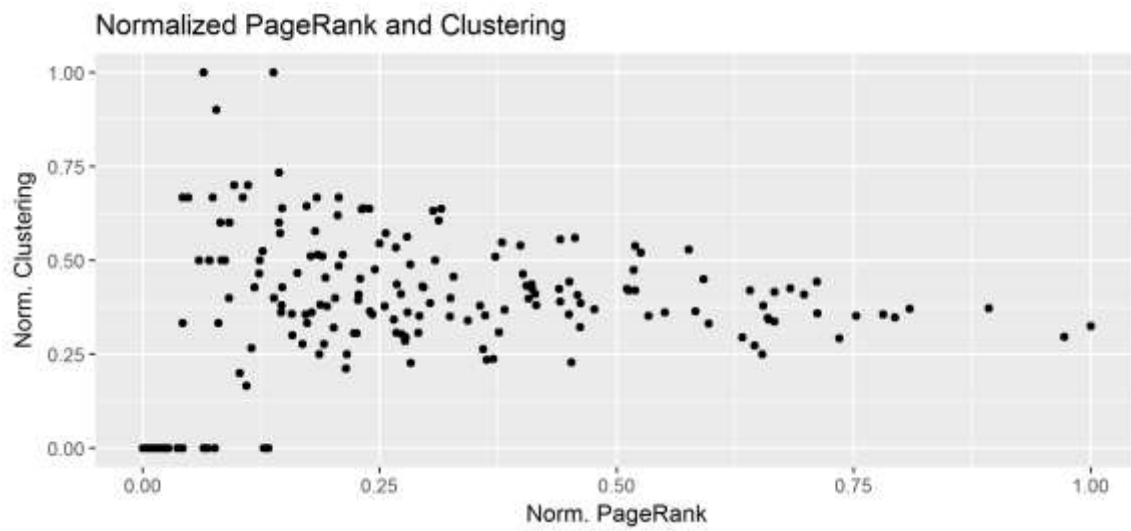


Figure 4.13.0.104 Norm Pageranks & Clustering

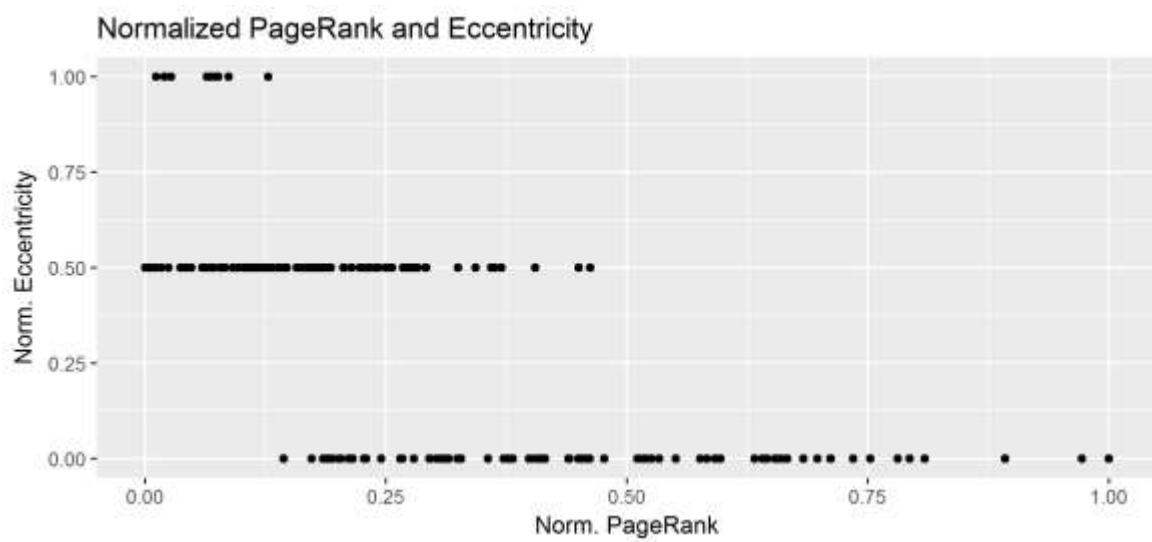


Figure 4.13.0.105 Norm Pageranks & Eccentricity

4.3.14 Comparisons Between Centralities

In this section we examine the relationship between the centralities, we will expect all of them to be linear related as all of them try to find the most centralized vertex.

Betweenness

Betweenness centrality is linear related with all centralities and the regression line in all the graphs has the same curves. First it's a small negative aggressive exponential distribution then it decreases and finally again a negative exponential but smooth.

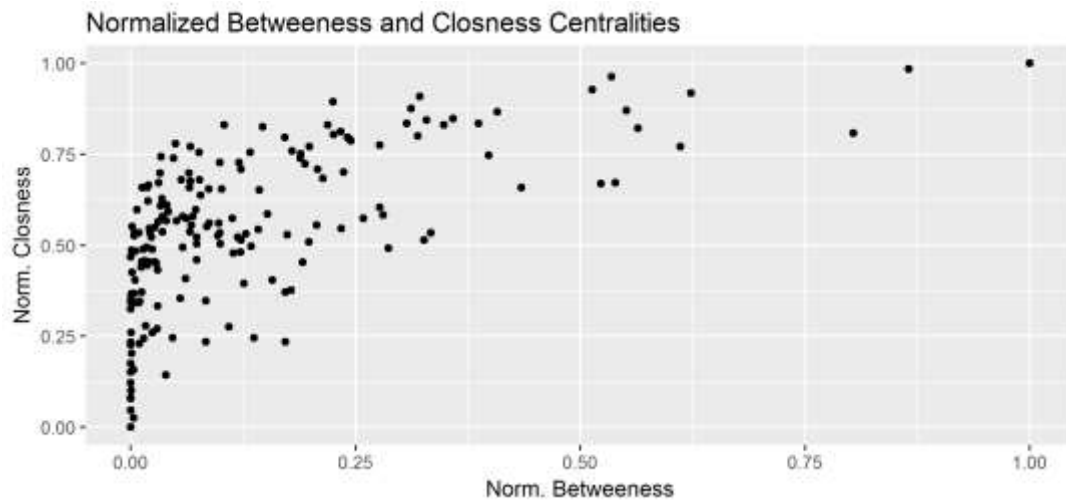


Figure 4.14.0.106 Norm Betweenness & Closeness

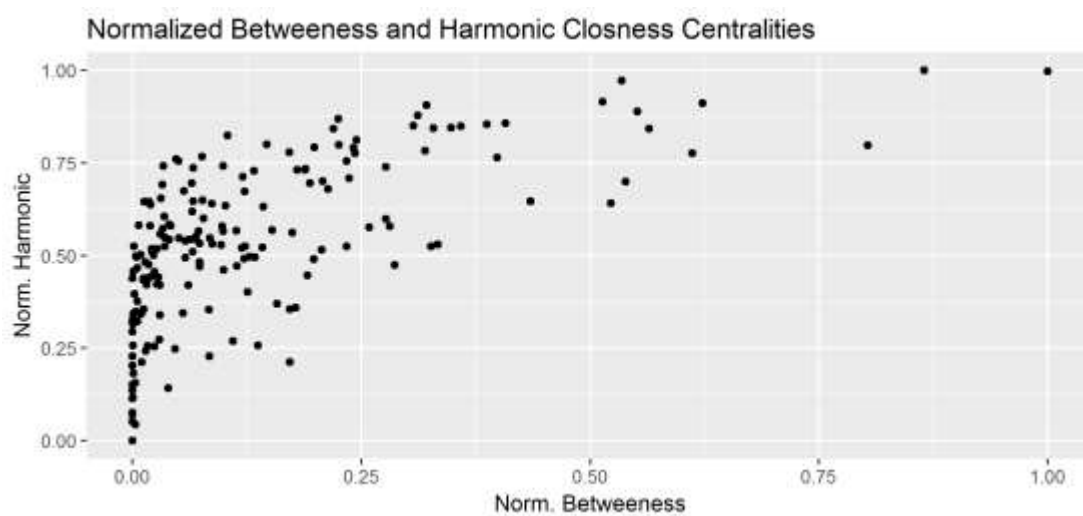


Figure 4.14.0.107 Norm Betweenness & Harmonic Closeness

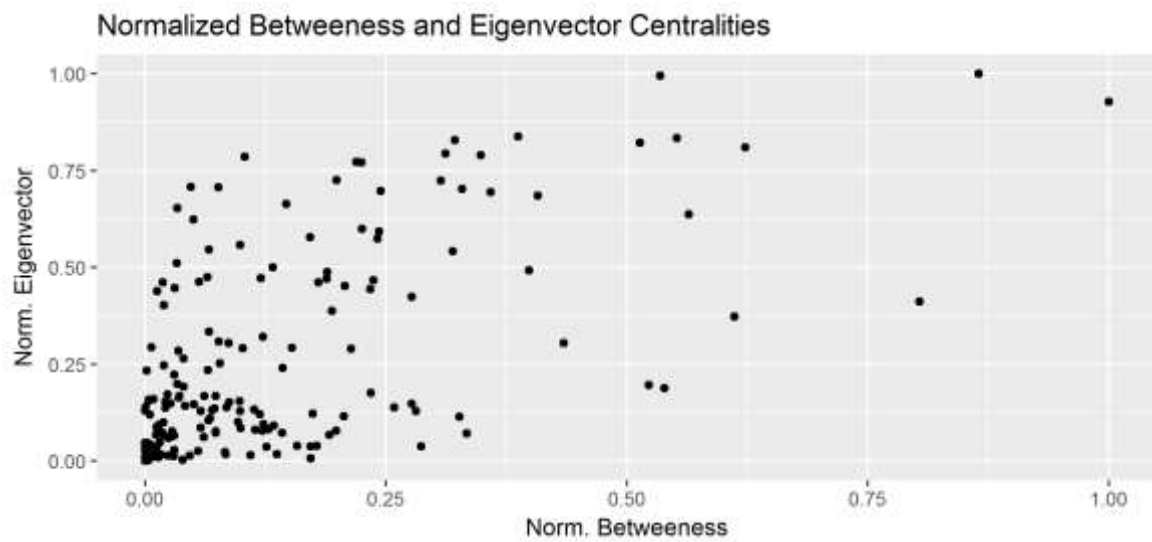


Figure 4.14.0.108 Norm Betweenness & Eigenvector

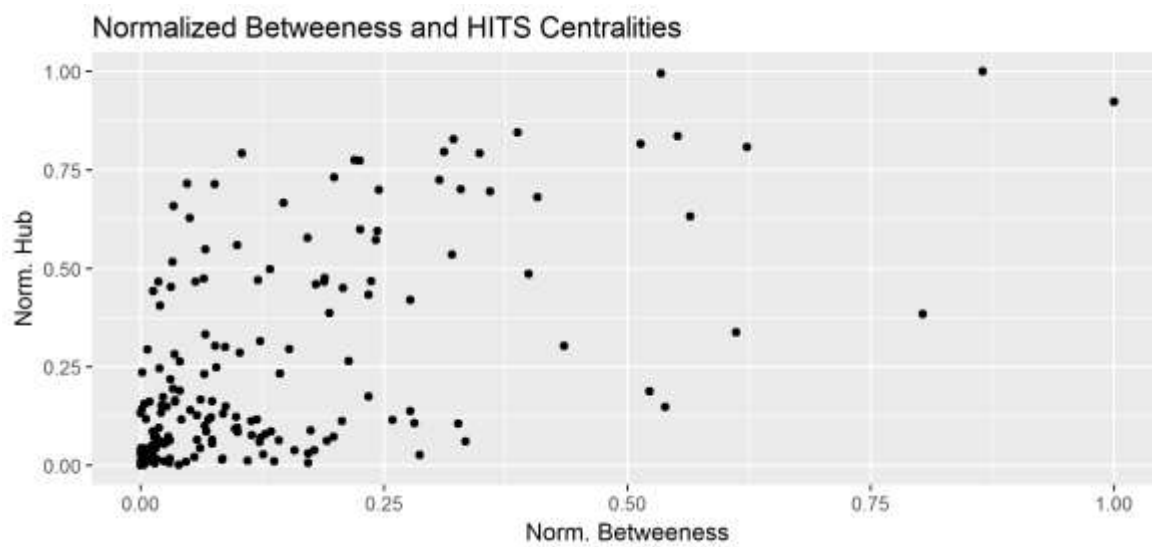


Figure 4.14.0.109 Norm Betweenness & HITS

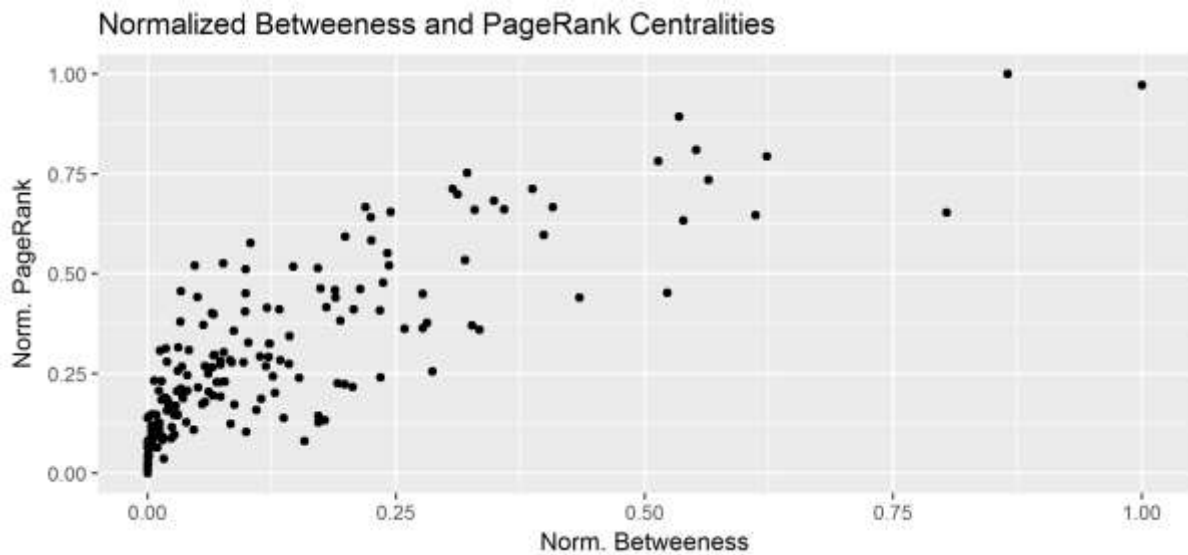


Figure 4.14.0.110 Norm Betweenness & Pageranks

Closeness Centrality

Closeness centrality is also linear related with all centralities. From the figures we see that closeness and harmonic closeness centralities regression line is a $y=x$, which was expected as harmonic closeness is produced by closeness. With the next 3 centralities, closeness creates an exponential line which in comparison with eigenvector and HITS after a certain point the regression line is a $y=x$.

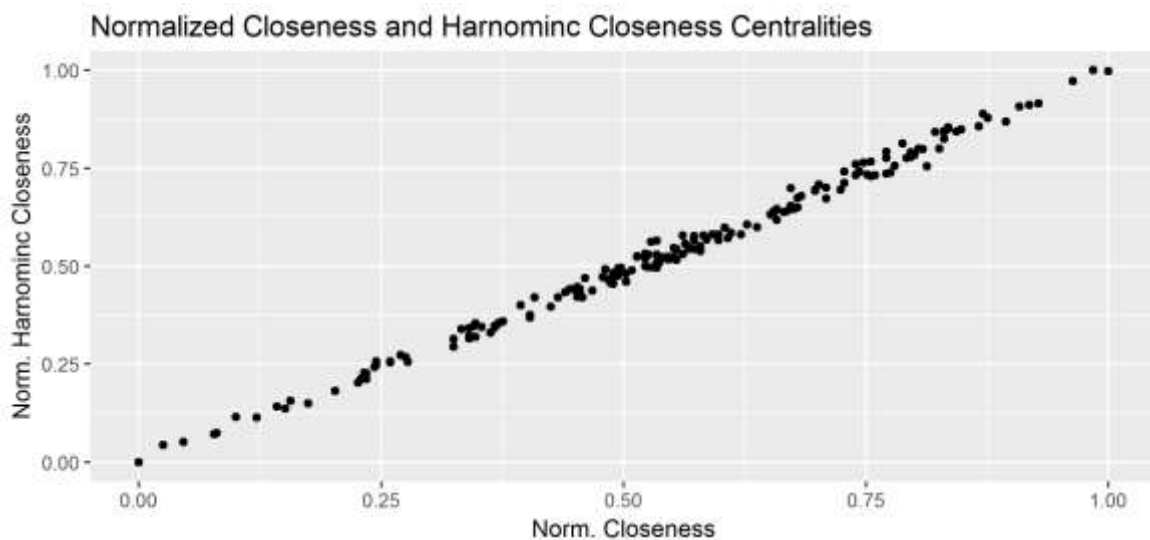


Figure 4.14.0.111 Norm Closeness & Harmonic Closeness

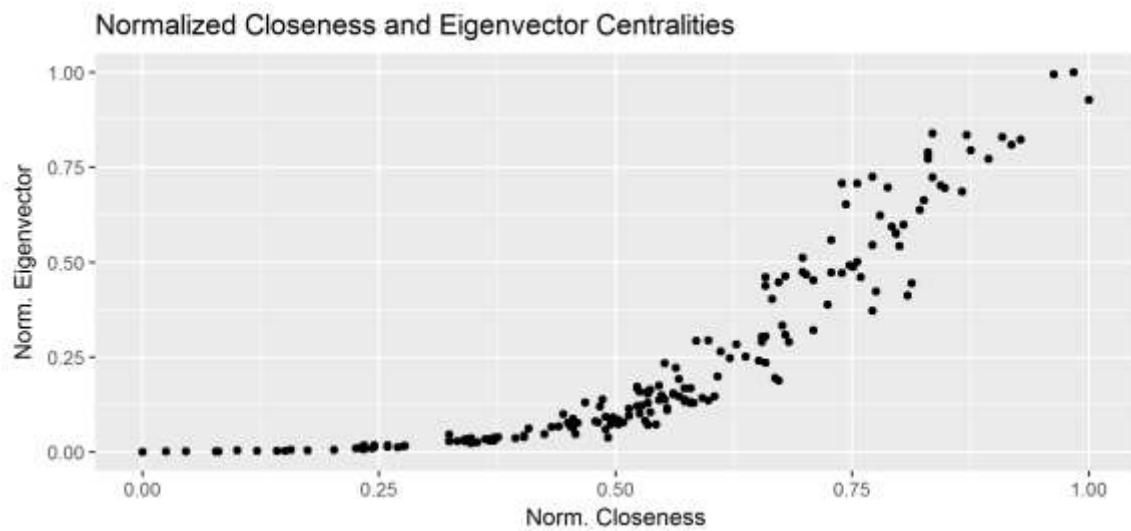


Figure 4.14.0.112 Norm Closeness & Eigenvector

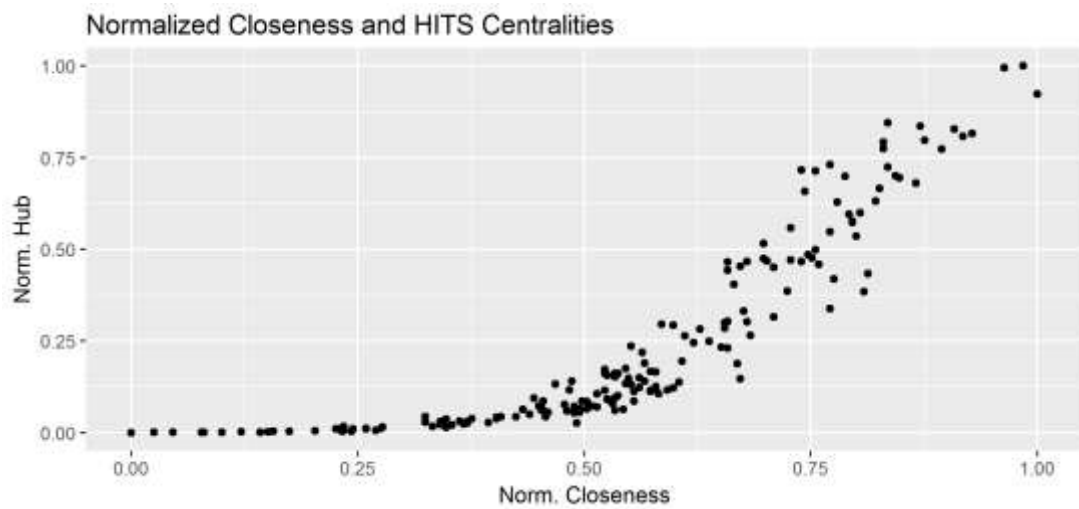


Figure 4.14.0.113 Norm Closeness & HITS

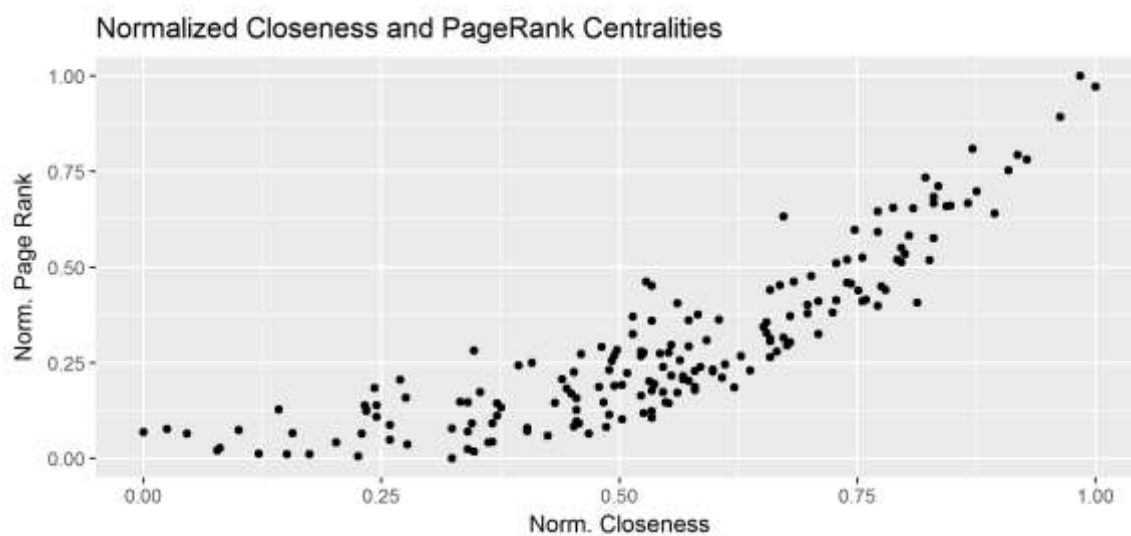


Figure 4.14.0.114 Norm Closeness & Pageranks

Harmonic Closeness Centrality

As with closeness, harmonic closeness has exactly the same results. The regression line with eigenvector, HITS and Pagerank is a exponential line but with eigenvector and HITS it turns an $y=x$ after a certain point.

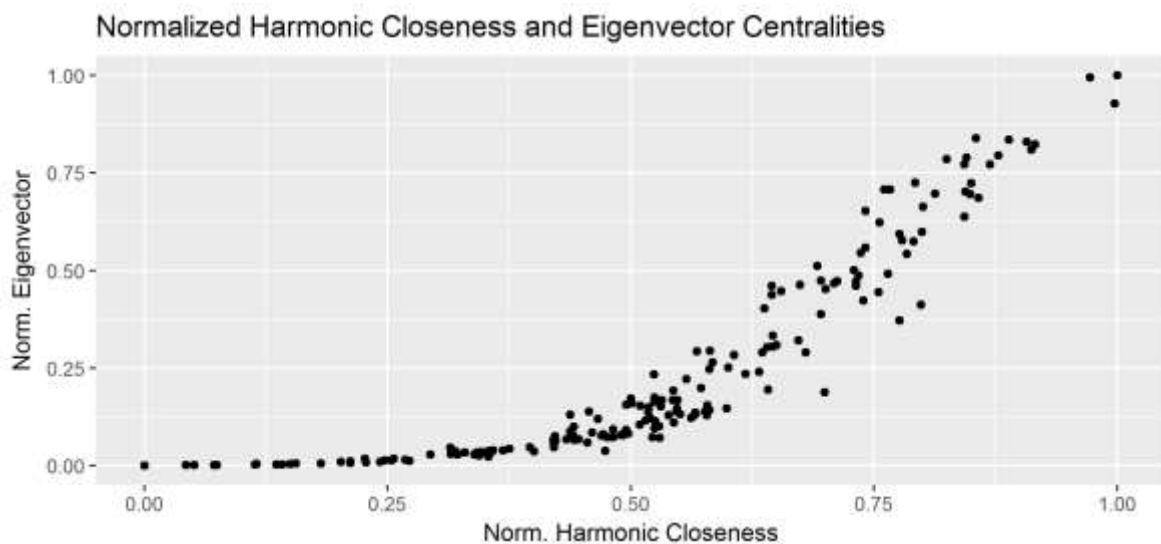


Figure 4.14.0.115 Norm Harmonic Closeness & Eigenvector

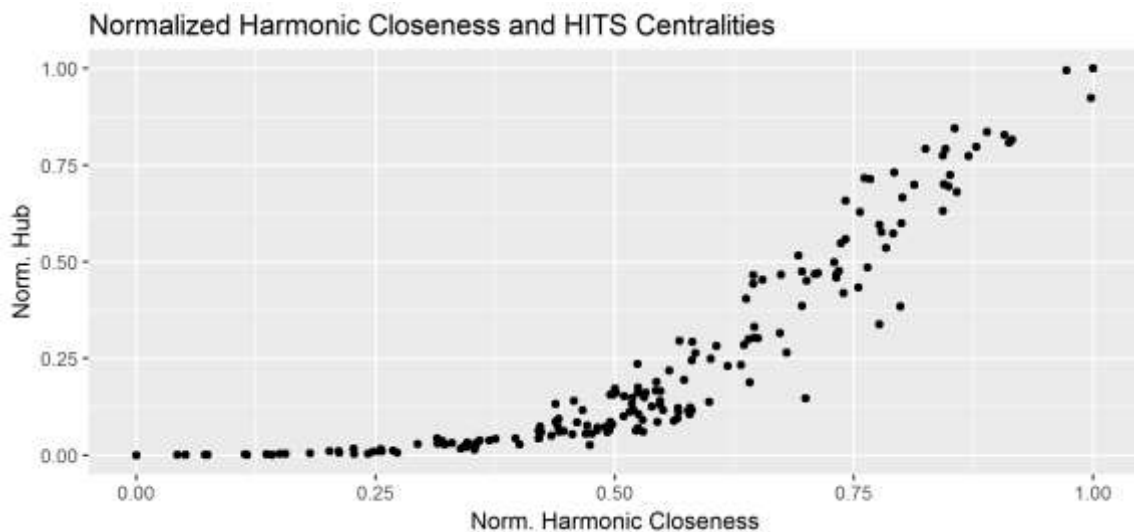


Figure 4.14.0.116 Norm Harmonic Closeness & HITS

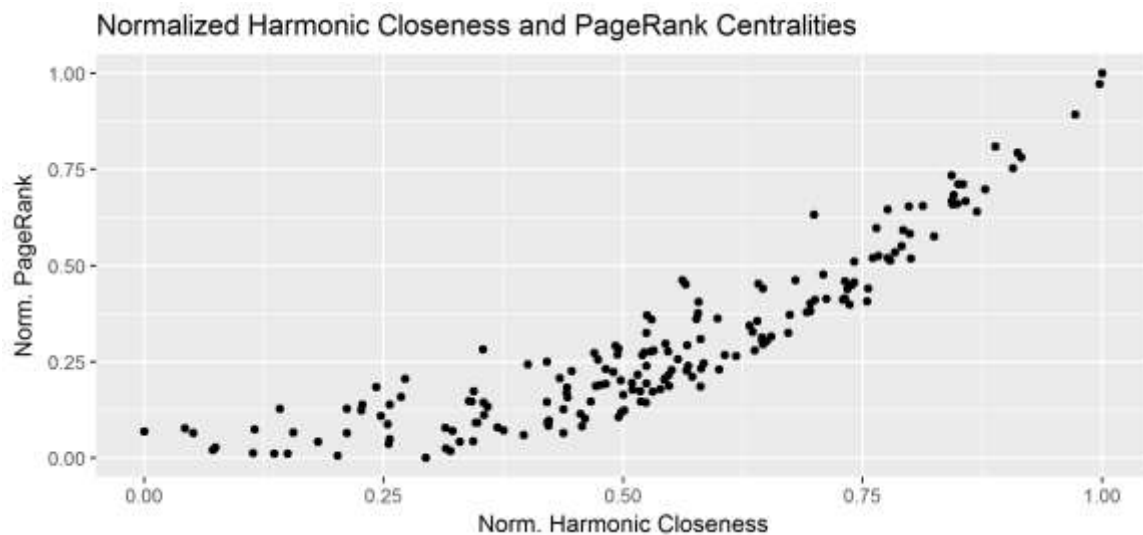


Figure 4.14.0.117 Norm Harmonic Closeness & Pagerank

Eigenvector Centrality

Eigenvector are HITS regression line is a straight line $y=x$ and almost all observations tend to be the same. Untill now eigenvector and hits the only centralities with such common results. Also eigenvector is linear related with pagerank and constantly increases.

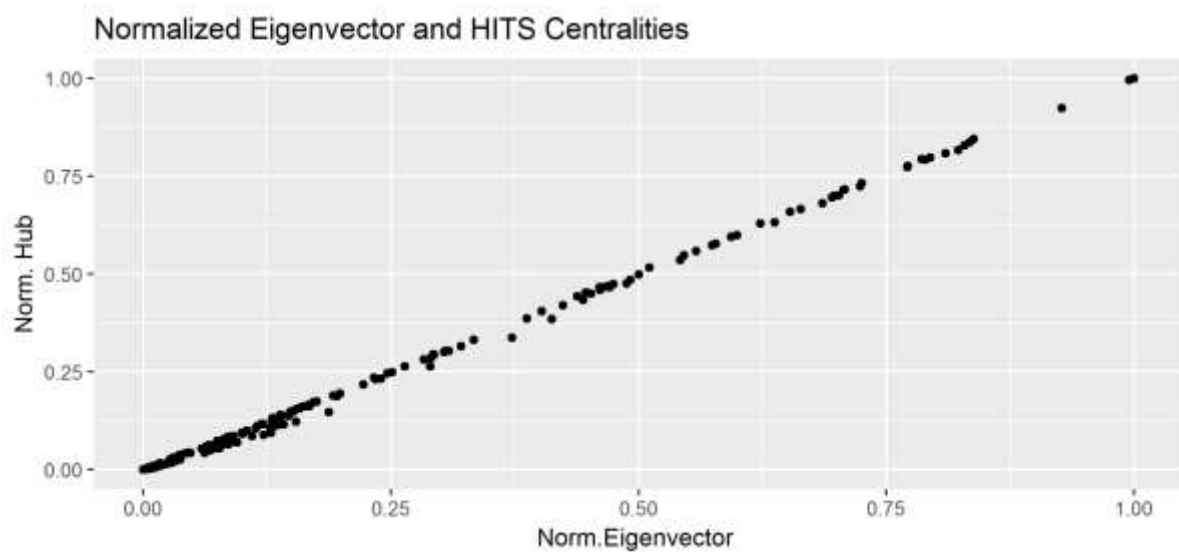


Figure 4.14.0.118 Norm Eigenvector & HITS

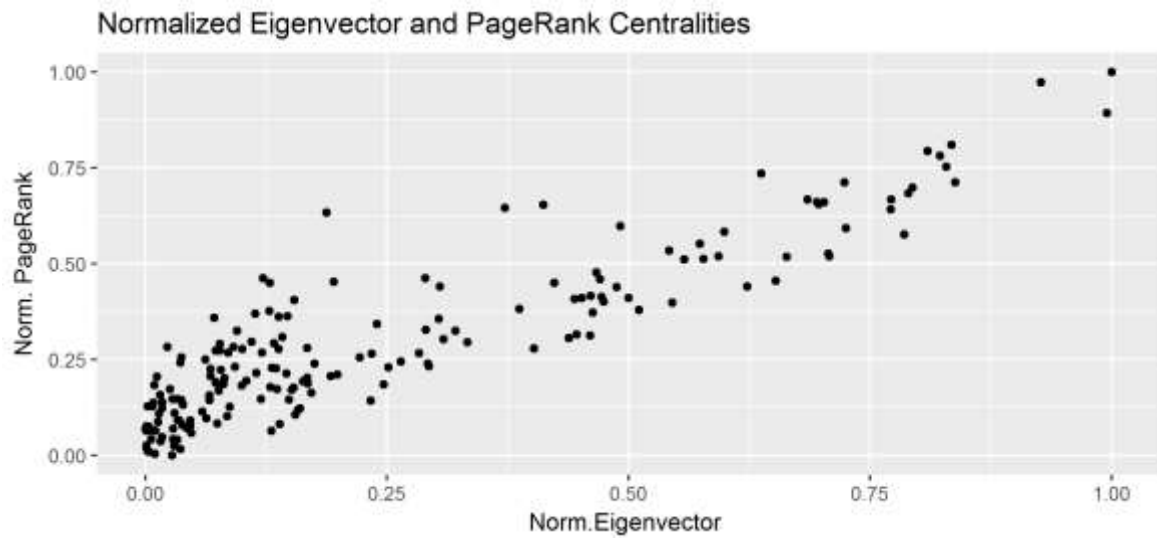


Figure 4.14.0.119 Norm Eigenvector & Pagerank

HITS Centrality

Finally we have our last two centralities comparison HITS and Pagerank and we have the same linear relationship as with the other centralities.

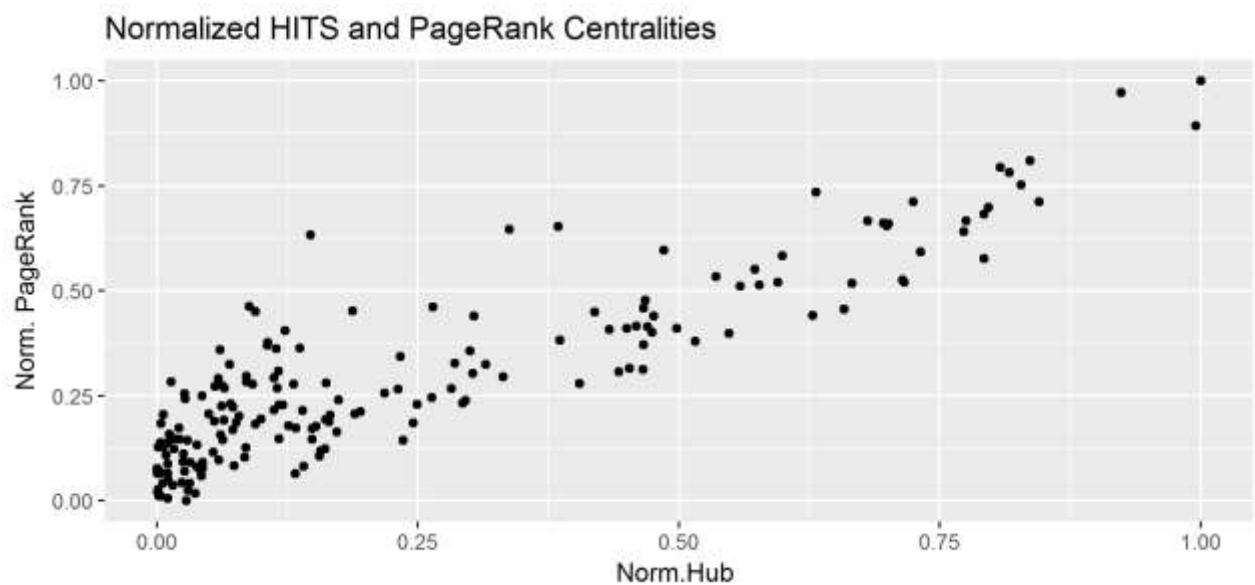


Figure 4.14.0.120 Norm HITS & Pageranks

4.4 Undirected Weighted Network

At the last stage of our analysis we created the undirected weighted network of SCImago journals. The weighted network is the incident matrix that is described at the beginning of the chapter 4. For the weighted network we calculated the same measures and the results moreover where the same expect the degree and the modularity. Weighted Degree and Weighted Modularity is presented to understand the differences between an weighted and an unweighted network.

4.4.1 Weighted Degree

First the weighted degree frequency is presented to see the allocation of the observations. From the first glance it is clear that the weighted degree contains greater values. As degree range was from 0 to 57, weighted degree is from 0 to 135. That shows that the weight increases the degree in the more central journals. As with the degree also with the weighted degree SJR and H Index don't have any linear relationship at all and also the SJR and H Index boxplots are the same with mere differences, such as in Q4 there are two outliers instead of 3. Because of the weight the relation between weighted degree and degree is exponential. Triangles and weighted degree are also linear related and clustering as with all centralities has no relationship.

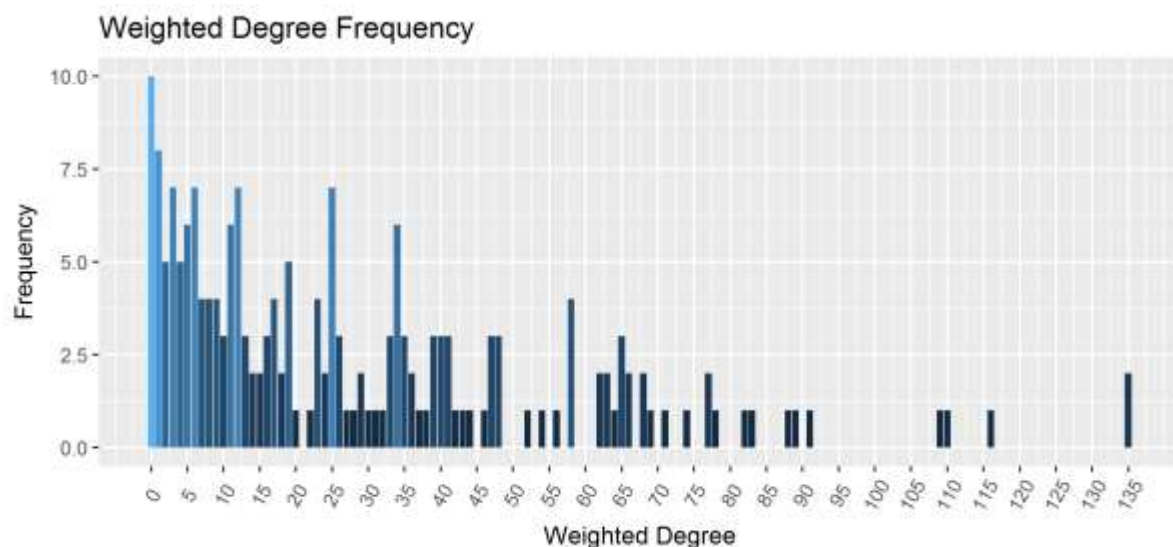


Figure 4.15.0.1 Weighted Degree Frequency

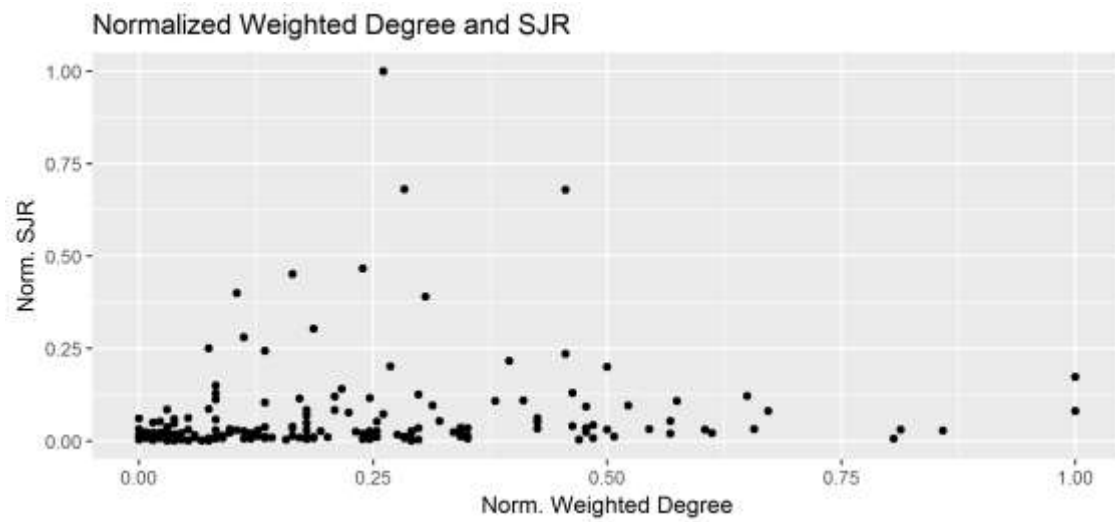


Figure 4.15.0.2 Norm Weighted Degree & Sjr

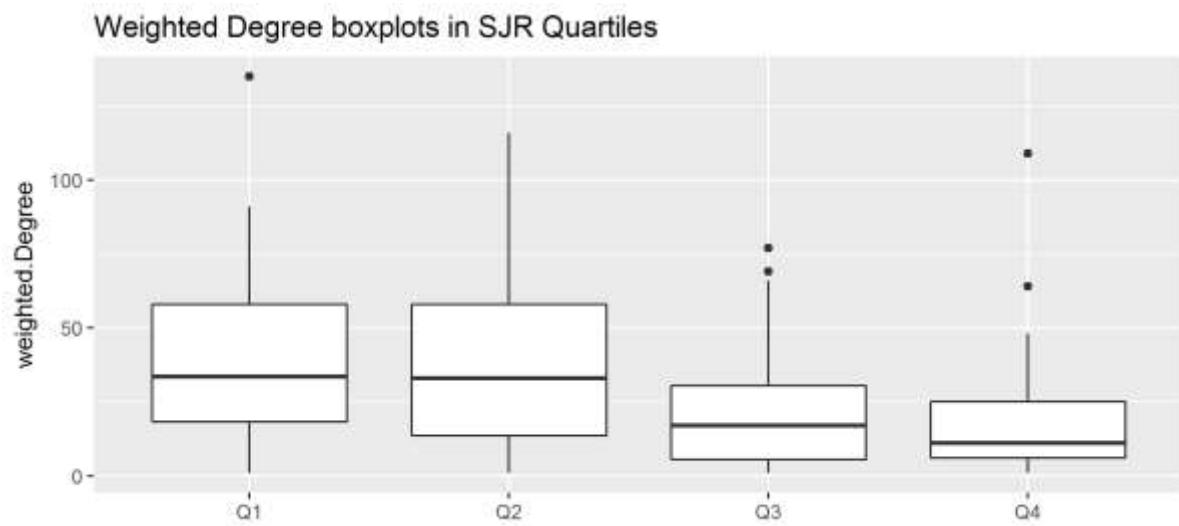


Figure 4.15.0.3 Weighted Degree boxplots in sjr quart.

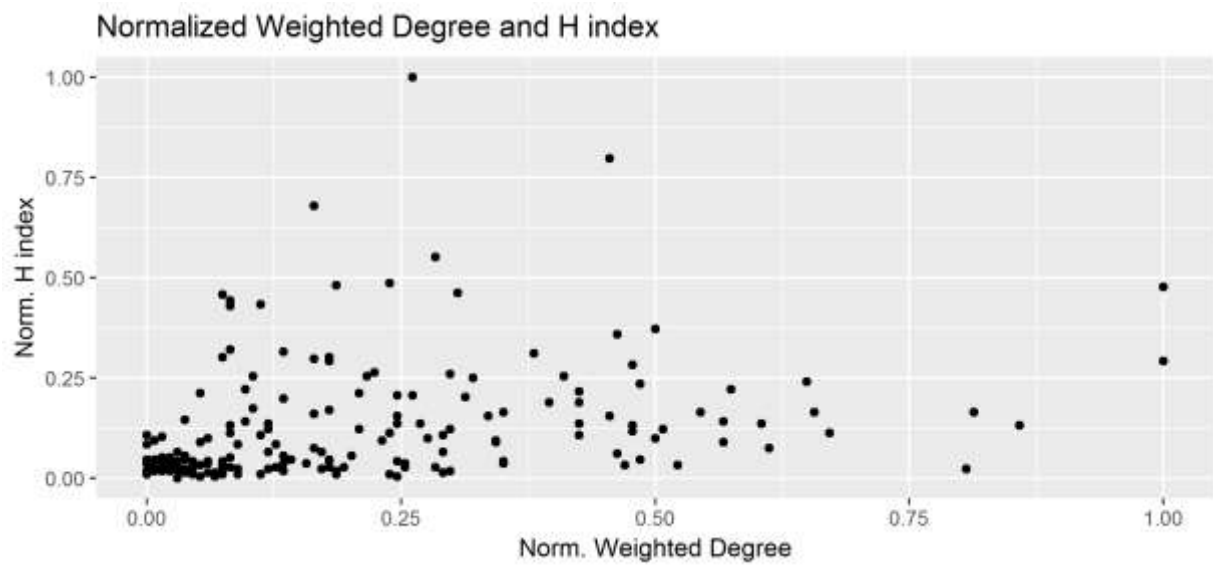


Figure 4.15.0.4 Norm Weighted Degree & H index

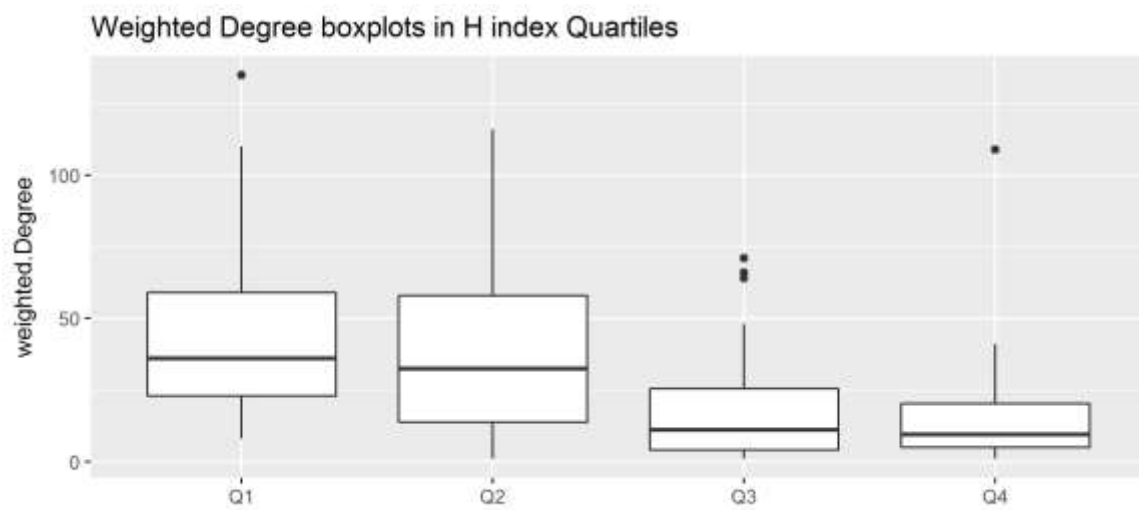


Figure 4.15.0.5 Weighted Degree boxplots in h index quart.

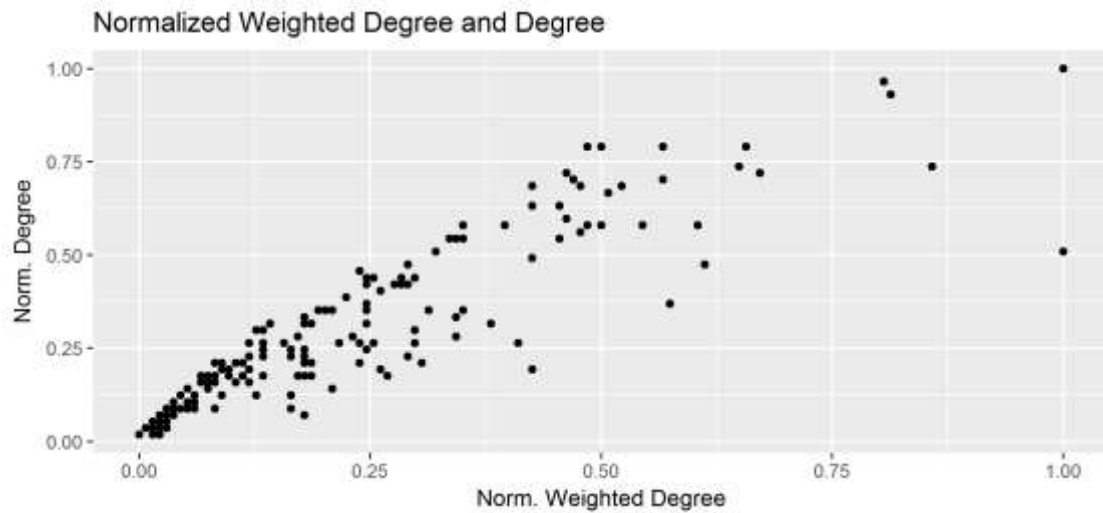


Figure 4.15.0.6 Norm Weighted Degree & Degree

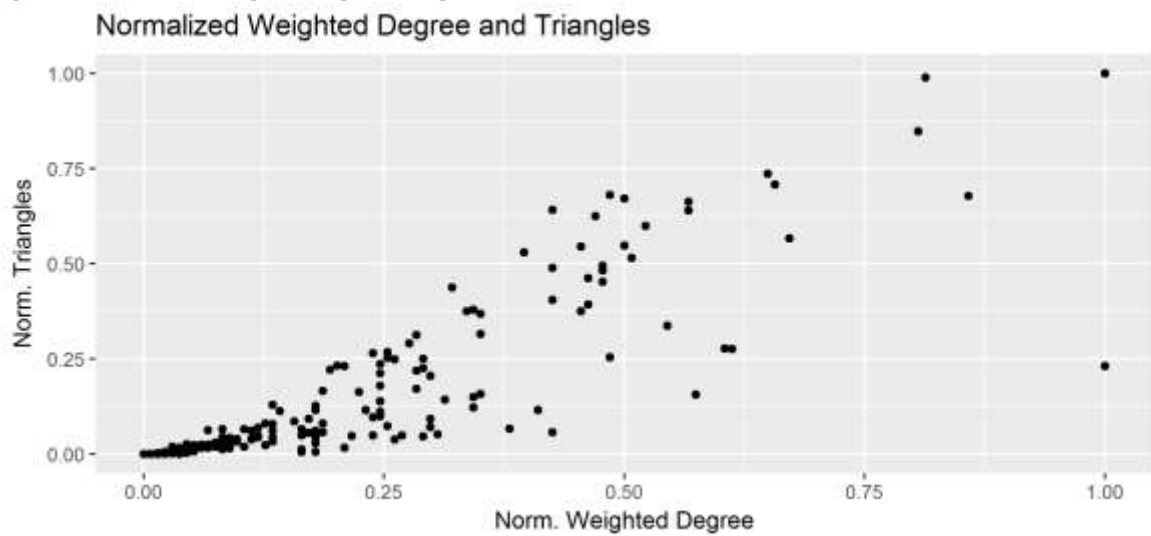


Figure 4.15.0.7 Norm Weighted Degree & Triangles

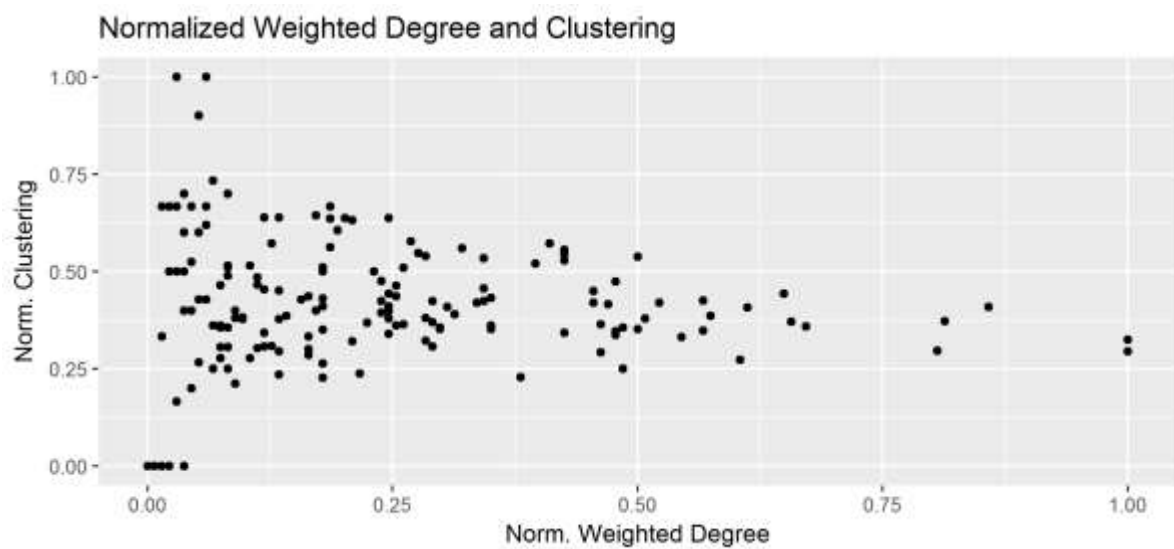


Figure 4.15.0.8 Norm Weighted Degree & Clustering

4.4.2 Weighted Degree and Centralities

In this section, the weighted degree is being compared with the centralities and we have the same results but more aggressive and the observations are more spreader. It has to be told that the weighted degree figures that are compared with the centralities have the weighted degree on the x axis and the centrality on the y axis in contrast with respective figures for the degree and the centrality.

All the centrality comparisons figures are almost the same but more aggressive as it is commend above. The only difference we observe is in the pagerank comparison, where the degree and pagerank was a $y=x$ line the weighted degree and pagerank is an exponential line.

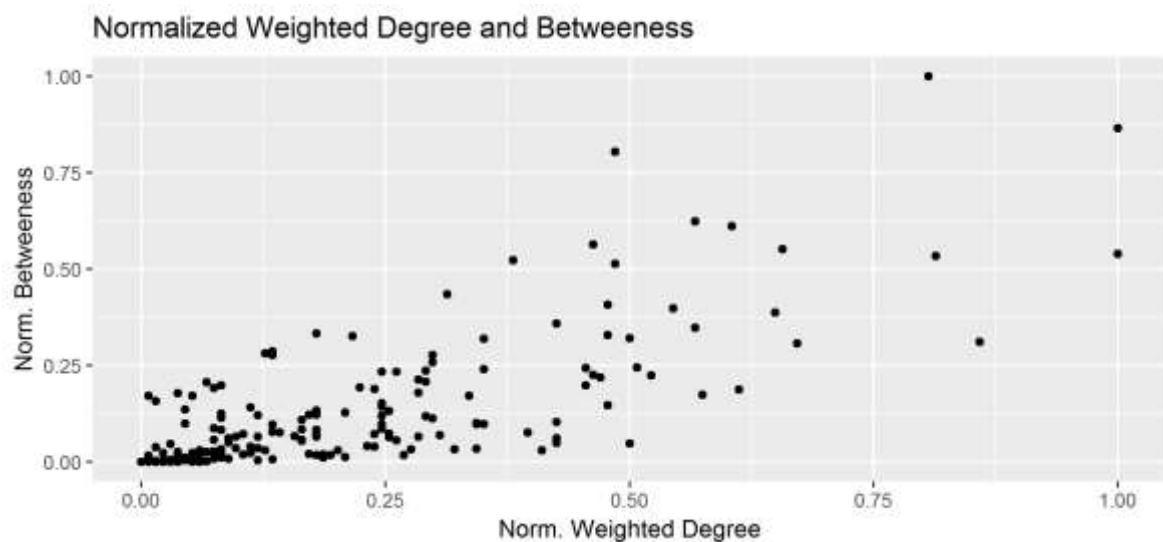


Figure 4.16.0.9 Norm Weighted Degree & Betweenness

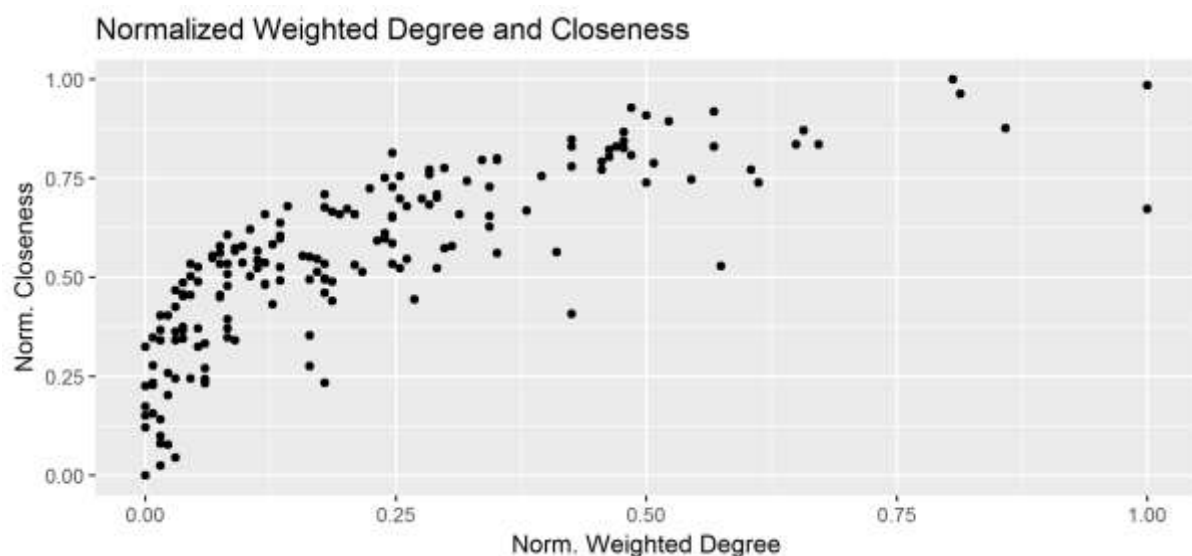


Figure 4.16.0.10 Norm Weighted Degree & Closeness

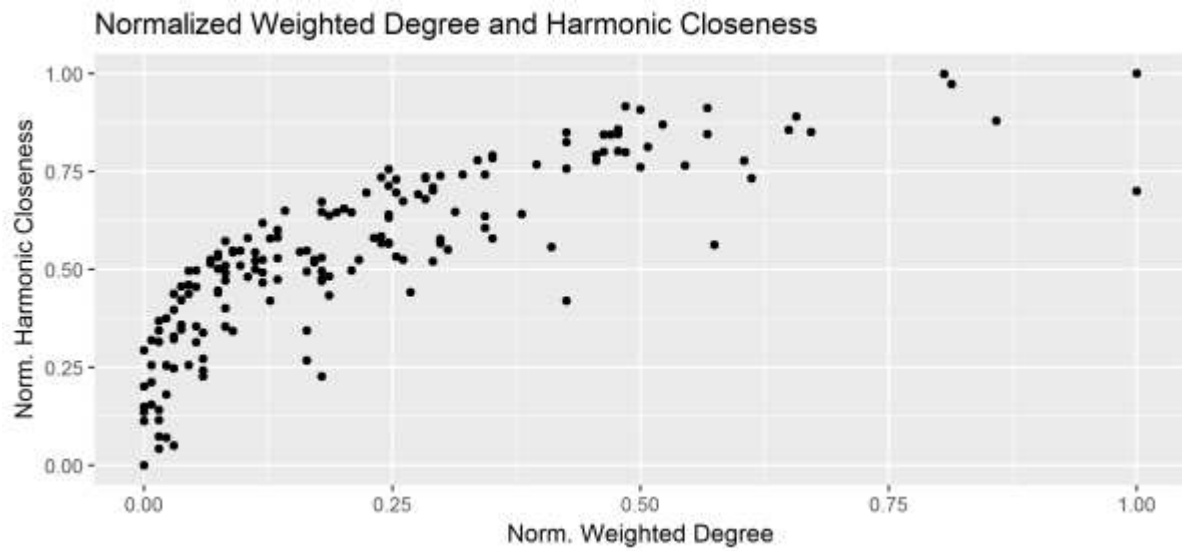


Figure 4.16.0.11 Norm Weighted Degree & Harmonic Closeness

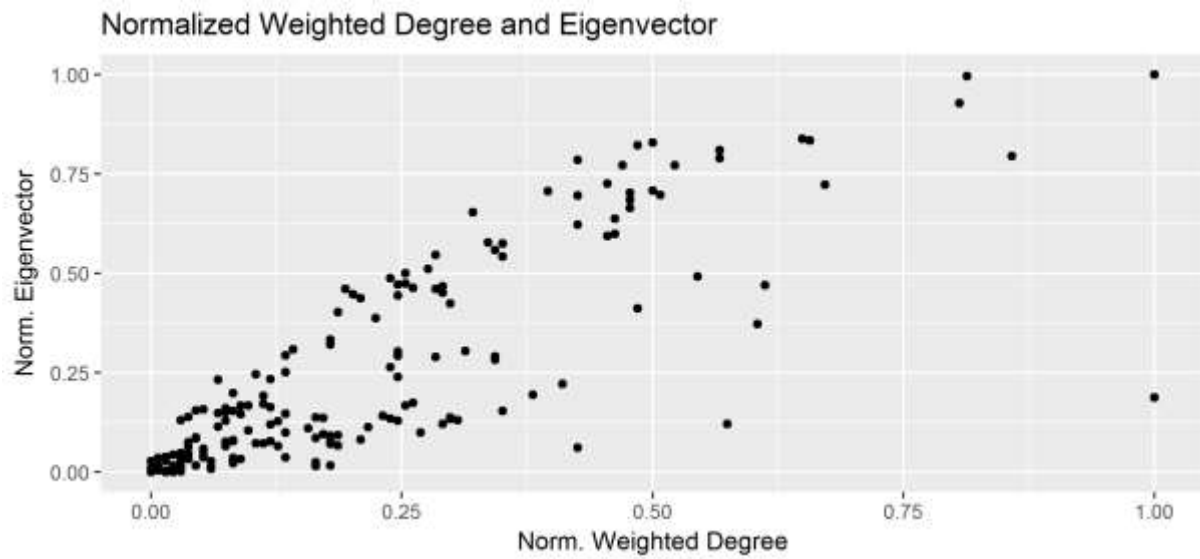


Figure 4.16.0.12 Norm Weighted Degree & Eigenvector

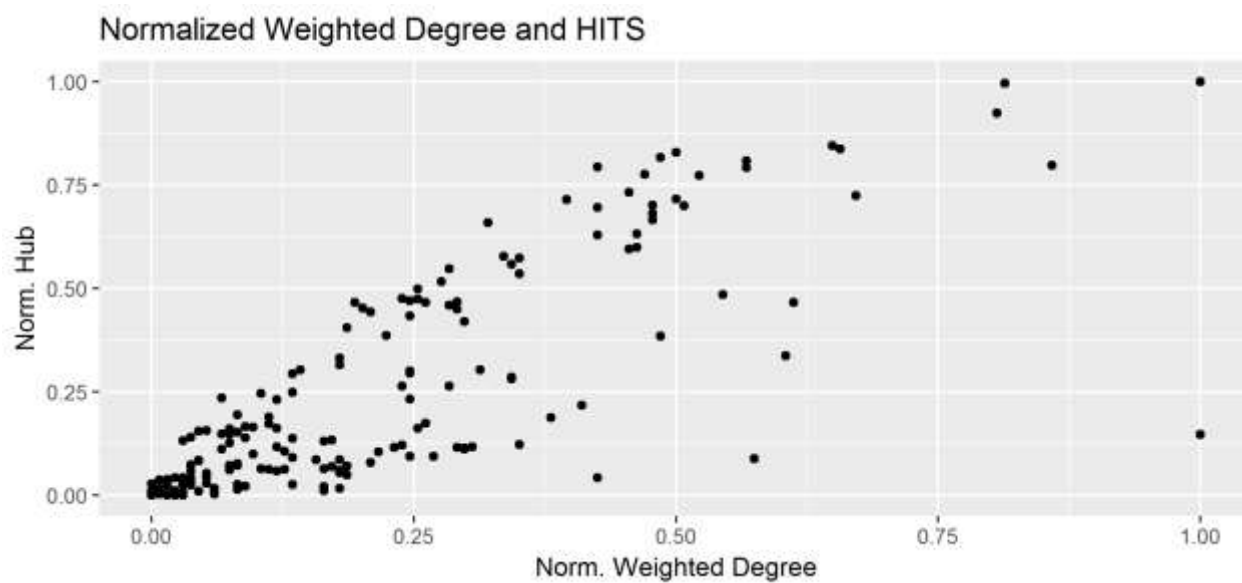


Figure 4.16.0.13 Norm Weighted Degree & HITS

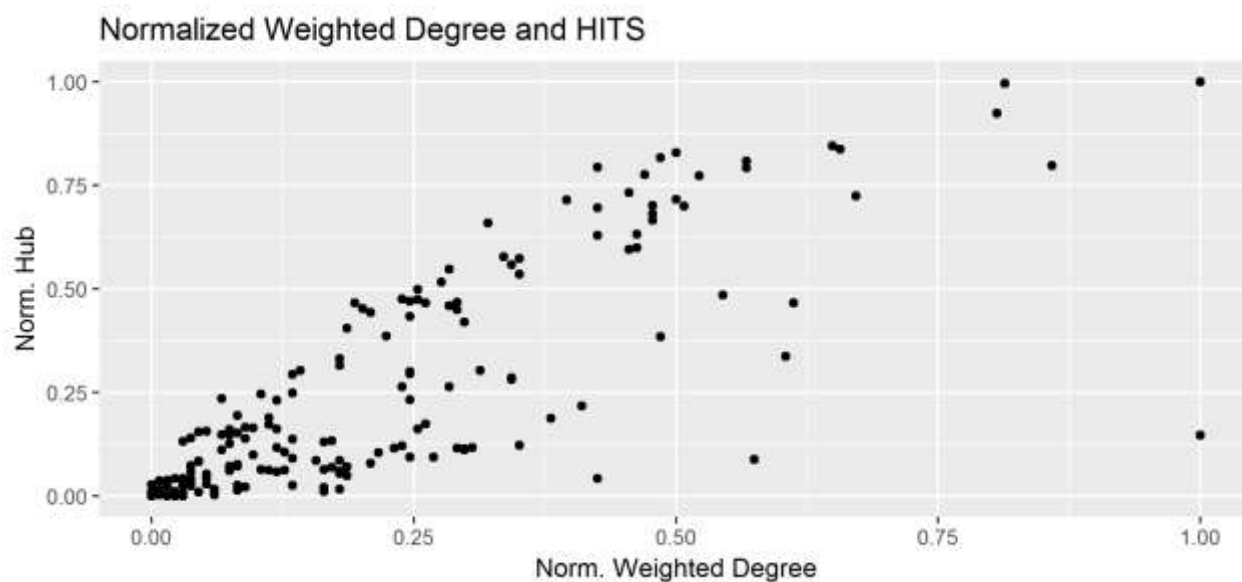


Figure 4.16.0.14 Norm Weighted Degree & Pagerank

4.4.3 Modularity

The second difference in the weighted network is the modularity. In the unweighted network the network had 18 communities whereas in the weighted network the network has 19 communities. The extra community is from the central component. So now the central component network has 8 communities instead of 7. Now communities 1 and 3 are the greatest with 37 journals and then follow community 2. So in contrast with the unweighted network we have some differences.

modularity_class	Count	T_sjr	T_Hindex	T_degree	T_W.degree
0	20	17.339	421	383	685
1	37	65.381	1440	946	1628
2	27	10.323	486	668	1192
3	37	35.511	912	452	1029
4	13	20.632	497	80	183
5	12	8.701	369	133	197
6	7	5.559	174	41	132
7	27	22.265	834	229	374
8	1	0.89	31	0	0
9	1	0.397	9	0	0
10	1	0.206	4	0	0
11	1	0.197	3	0	0
12	1	0.192	2	0	0
13	1	0.15	6	0	0
14	1	0.145	23	0	0
15	1	0.113	3	0	0
16	1	0.103	1	0	0
17	2	0.203	8	2	2
18	1	0.101	2	0	0

Table 41Modularity Classes

Communities

Community 0

Rank	Journal
13	annual_review_of_financial_economics
16	finance_and_stochastics
28	siam_journal_on_financial_mathematics
31	mathematical_finance
44	financial_analysts_journal
57	mathematics_and_financial_economics
63	annals_of_finance
67	international_journal_of_theoretical_and_applied_finance
76	quantitative_finance
80	applied_mathematical_finance
84	journal_of_futures_markets
96	journal_of_portfolio_management
99	investment_analysts_journal
128	review_of_derivatives_research
152	journal_of_wealth_management
166	asia_pacific_financial_markets
170	journal_of_derivatives
172	algorithmic_finance
177	journal_of_alternative_investments
182	journal_of_fixed_income

Table 42 Community 0

Community 1

Rank	Journal
1	journal_of_finance
2	review_of_financial_studies
3	journal_of_financial_economics
14	review_of_finance
15	journal_of_financial_markets
17	journal_of_financial_and_quantitative_analysis
22	journal_of_money_credit_and_banking
25	journal_of_financial_intermediation
35	international_review_of_finance
37	journal_of_corporate_finance
38	world_bank_economic_review
40	journal_of_international_money_and_finance
41	journal_of_financial_econometrics
43	journal_of_financial_stability
50	international_journal_of_central_banking
52	international_review_of_economics_and_finance
54	journal_of_empirical_finance
58	financial_management

72	north_american_journal_of_economics_and_finance
73	journal_of_financial_counseling_and_planning
74	journal_of_financial_services_research
81	pacific_basin_finance_journal
94	review_of_quantitative_finance_and_accounting
108	journal_of_international_financial_management_and_accounting
125	zbornik_radova_ekonomskog_fakultet_au_rijeci
137	finance_a_uver
140	financial_markets_and_portfolio_management
142	asia_pacific_journal_of_financial_studies
145	financial_markets_institutions_and_instruments
150	journal_of_behavioral_finance
156	journal_of_emerging_market_finance
167	review_of_development_finance
175	african_finance_journal
179	journal_of_banking_regulation
184	international_journal_of_banking_accounting_and_finance
198	macroeconomics_and_finance_in_emerging_market_economies
199	risk_governance_and_control_financial_markets_and_institutions

Table 43 Community 1

Community 2

Rank	Journal
42	journal_of_banking_and_finance
51	venture_capital
55	journal_of_international_financial_markets_institutions_and_money
71	review_of_financial_economics
78	journal_of_financial_research
86	international_review_of_financial_analysis
88	annals_of_economics_and_finance
92	financial_review
95	quarterly_review_of_economics_and_finance
100	research_in_international_business_and_finance
106	finance_research_letters
109	emerging_markets_finance_and_trade
112	global_finance_journal
124	studies_in_economics_and_finance
127	journal_of_multinational_financial_management
130	journal_of_economics_and_finance
143	review_of_pacific_basin_financial_markets_and_policies
151	international_journal_of_managerial_finance
155	investment_management_and_financial_innovations
158	international_journal_of_monetary_economics_and_finance
178	journal_of_behavioral_and_experimental_finance
180	academy_of_accounting_and_financial_studies_journal
190	international_research_journal_of_finance_and_economics
192	journal_of_business_valuation_and_economic_loss_analysis

195	international_journal_of_business
202	jassa
203	banking_and_finance_review

Table 44 Community 2

Community 3

Rank	Journal
4	journal_of_accounting_and_economics
7	journal_of_accounting_research
10	accounting_review
18	contemporary_accounting_research
24	management_accounting_research
33	auditing
39	foundations_and_trends_in_accounting
47	critical_perspectives_on_accounting
56	journal_of_the_american_taxation_association
62	journal_of_business_finance_and_accounting
64	international_journal_of_accounting_information_systems
69	accounting_forum
70	international_journal_of_accounting
79	accounting_and_finance
93	journal_of_accounting_auditing_and_finance
101	public_budgeting_and_finance
102	journal_of_revenue_and_pricing_management
113	journal_of_international_accounting_auditing_and_taxation
114	financial_history_review
115	applied_econometrics_and_international_development
119	accounting_in_europe
120	international_journal_of_digital_accounting_research
123	asian_review_of_accounting
134	accounting_perspectives
135	accounting_research_journal
139	china_journal_of_accounting_research
146	research_in_accounting_regulation
147	asia_pacific_journal_of_accounting_and_economics
159	afro_asian_journal_of_finance_and_accounting
164	revista_espanola_de_financiacion_y_contabilidad
168	journal_of_public_budgeting_accounting_and_financial_management
169	review_of_accounting_and_finance
173	asian_academy_of_management_journal_of_accounting_and_finance
183	international_journal_of_disclosure_and_governance
187	international_journal_of_accounting_auditing_and_performance_evaluation
188	international_journal_of_revenue_management
206	australasian_accounting_business_and_finance_journal

Table 45 Community 3

Community 4

Rank	Journal
5	journal_of_management
6	family_business_review
23	longe_range_planning
26	journal_of_international_management
32	journal_of_world_business
46	international_business_review
129	journal_of_financial_services_marketing
131	prague_economic_papers
133	international_journal_of_sports_marketing_and_sponsorship
138	international_journal_of_sport_finance
149	universia_business_review
160	spanish_review_of_financial_economics
205	journal_of_private_equity

Table 46 Community 4

Community 5

Rank	Journal
12	journal_of_international_economics
48	china_economic_review
75	journal_of_asian_economics
87	asian_economic_papers
90	international_journal_of_finance_and_economics
91	japan_and_the_world_economy
98	world_economy
103	economie_internationale
104	journal_of_the_japanese_and_international_economies
111	international_finance
171	economia_politica
181	international_journal_of_business_and_society

Table 47 Community 5

Community 6

Rank	Journal
27	real_estate_economics
45	journal_of_real_estate_finance_and_economics
59	american_law_and_economics_review
66	journal_of_corporate_real_estate
85	journal_of_european_real_estate_research
110	international_review_of_law_and_economics
122	journal_of_property_investment_and_finance

Table 48 Community 6

Community 7

Rank	Journal
11	journal_of_monetary_economics
19	journal_of_public_economics
20	journal_of_risk_and_uncertainty
30	european_economic_review
34	games_and_economic_behavior
36	journal_of_risk_and_insurance
49	astin_bulletin
60	international_tax_and_public_finance
61	international_review_of_environmental_and_resource_economics
65	national_tax_journal
68	economics_letters
82	geneva_papers_on_risk_and_insurance_issues_and_practice
83	fiscal_studies
89	journal_of_public_economic_theory
97	international_journal_of_health_care_finance_and_economics
105	geneva_risk_and_insurance_review
116	risk_management
117	public_finance_review
118	wseas_transactions_on_business_and_economics
126	journal_of_pension_economics_and_finance
132	ejournal_of_tax_research
136	finanzarchiv
148	zeitschrift_für_die_gesamte_versicherungswissenschaft
154	journal_of_internet_banking_and_commerce
162	risk_management_and_insurance_review
176	decisions_in_economics_and_finance
189	hacienda_publica_espanola

Table 49 Community 7

Here we see that the communities with most journals also contain the journals with the highest SJR and this can be viewed from figure where communities 1,3 and 4 have the most extreme SJR values. Next follows the percentage of SJR in each community.

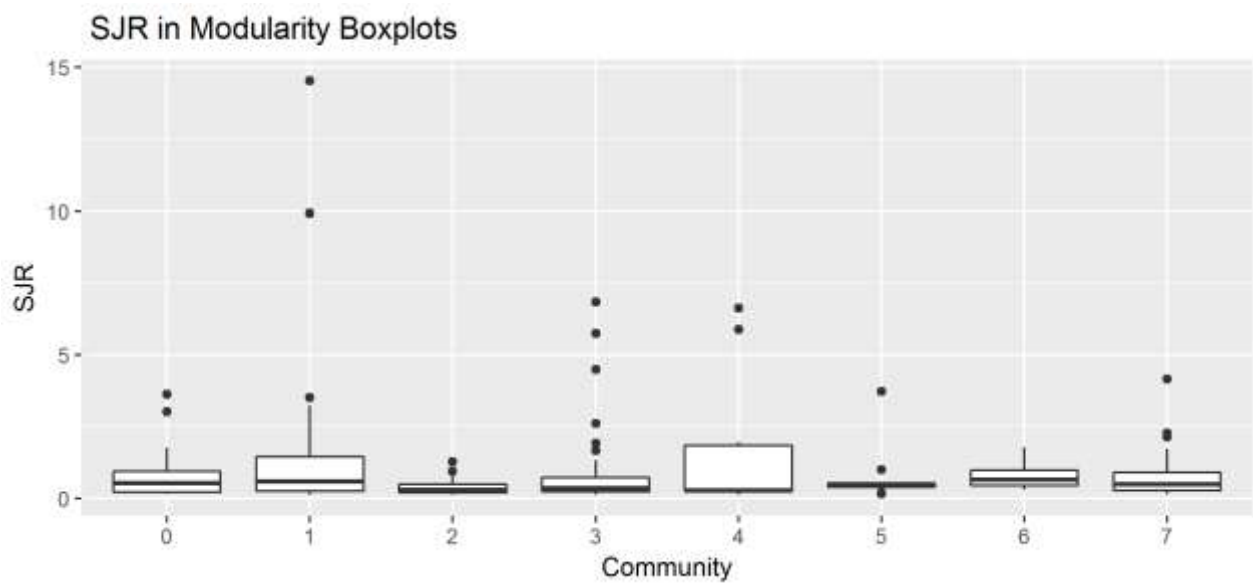


Figure 4.17.0.1 Sjr in modularity boxplots

Figure 14.1

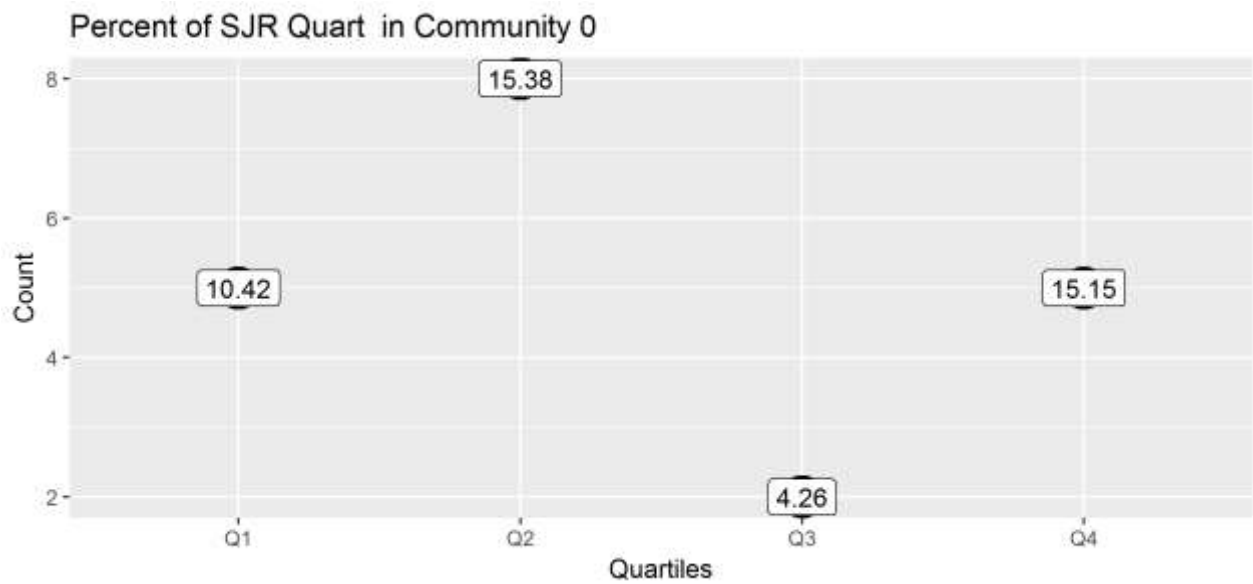


Figure 4.17.0.2 Percent of sjr in com. 0

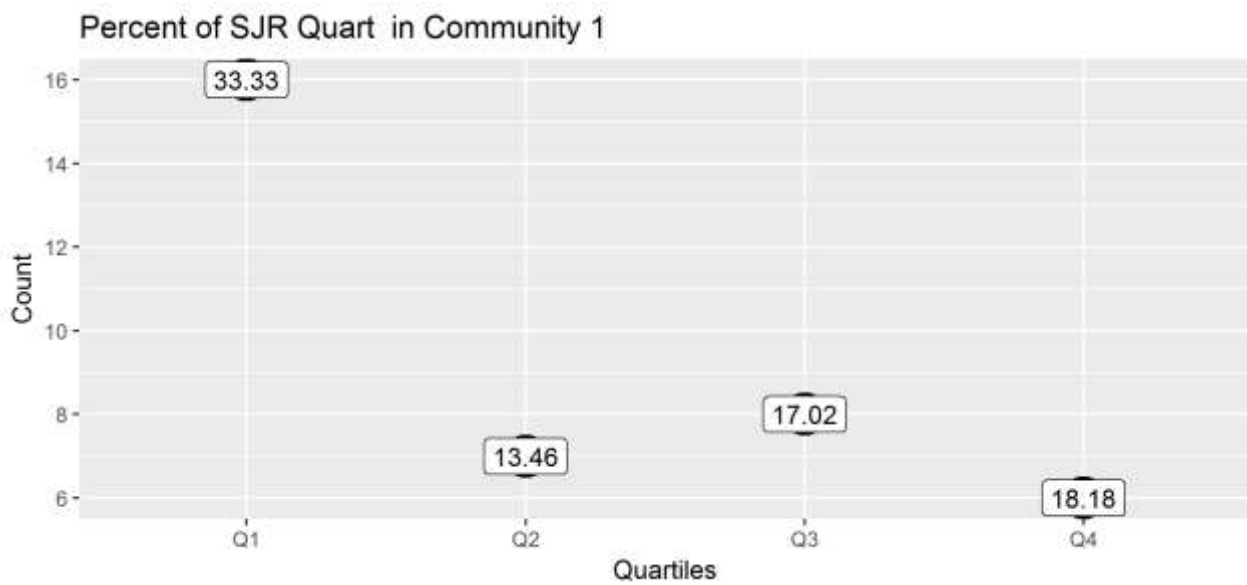


Figure 4.17.0.3 Percent of sjr in com. 1

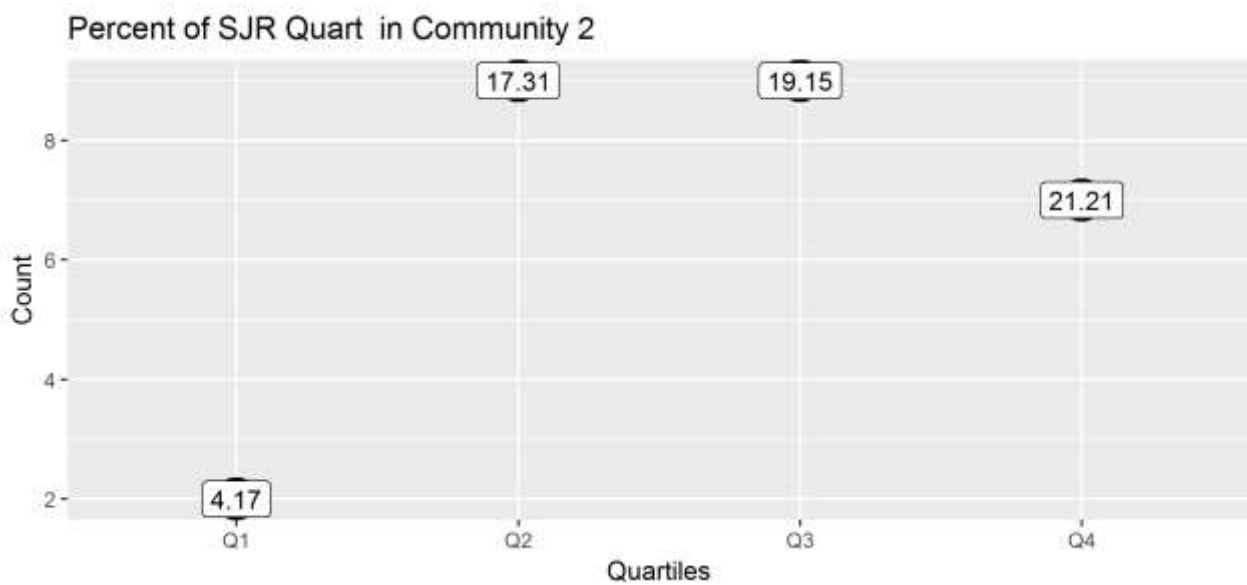


Figure 4.17.0.4 Percent of sjr in com. 2

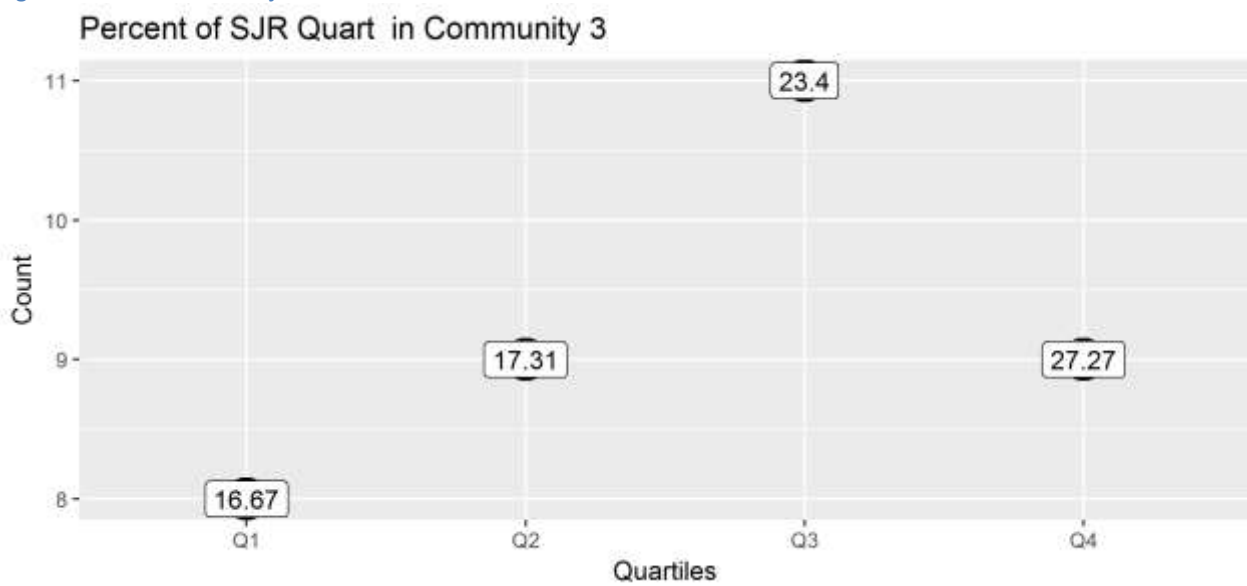


Figure 4.17.0.5 Percent of sjr in com. 3



Figure 4.17.0.6 Percent of sjr in com. 4

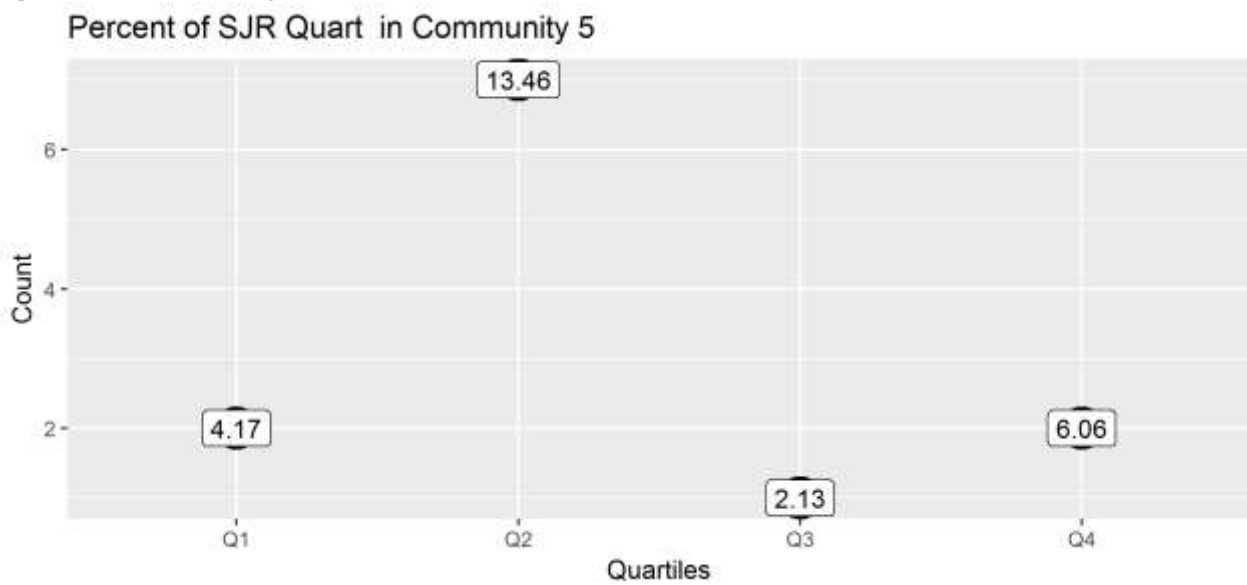


Figure 4.17.0.7 Percent of sjr in com. 5

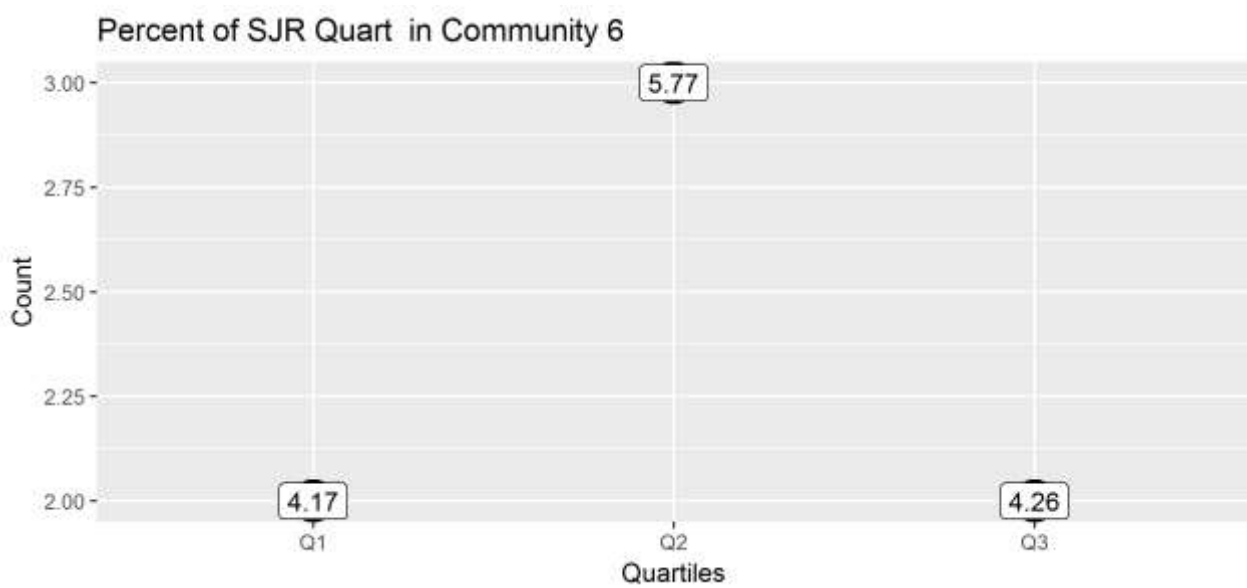


Figure 4.17.0.8 Percent of sjr in com. 6

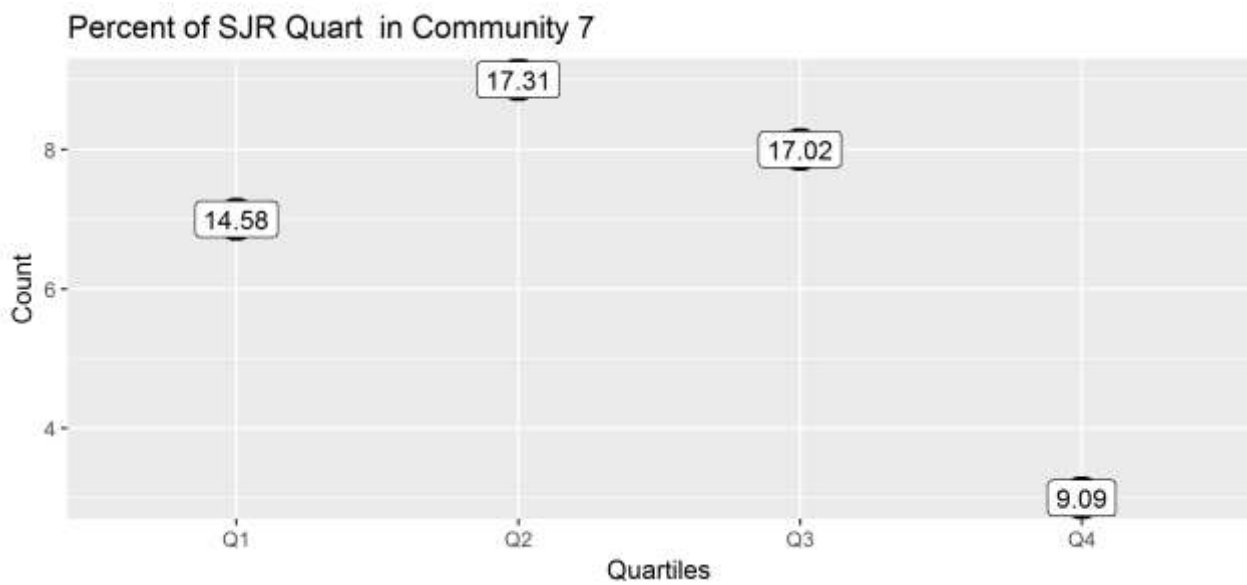


Figure 4.17.0.9 Percent of sjr in com. 7

H index

In H index boxplots we see also differences, community 4 contains the most journals and community 1 has the higher H index values. Next follows the percentage of H index in each community.

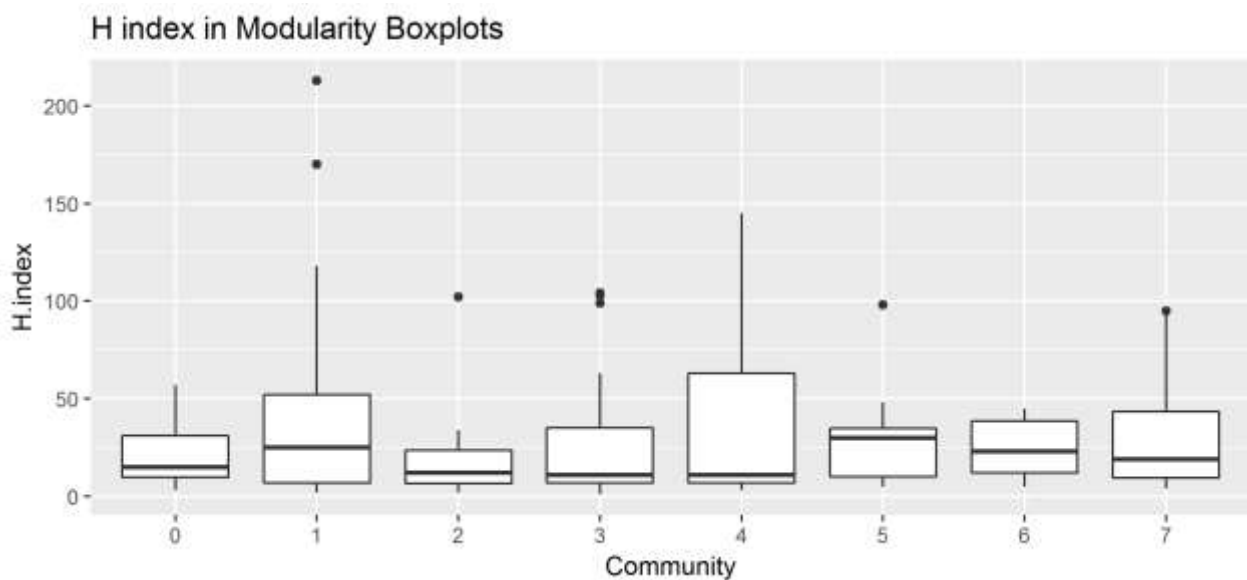


Figure 4.17.0.10 H index in modularity boxplots

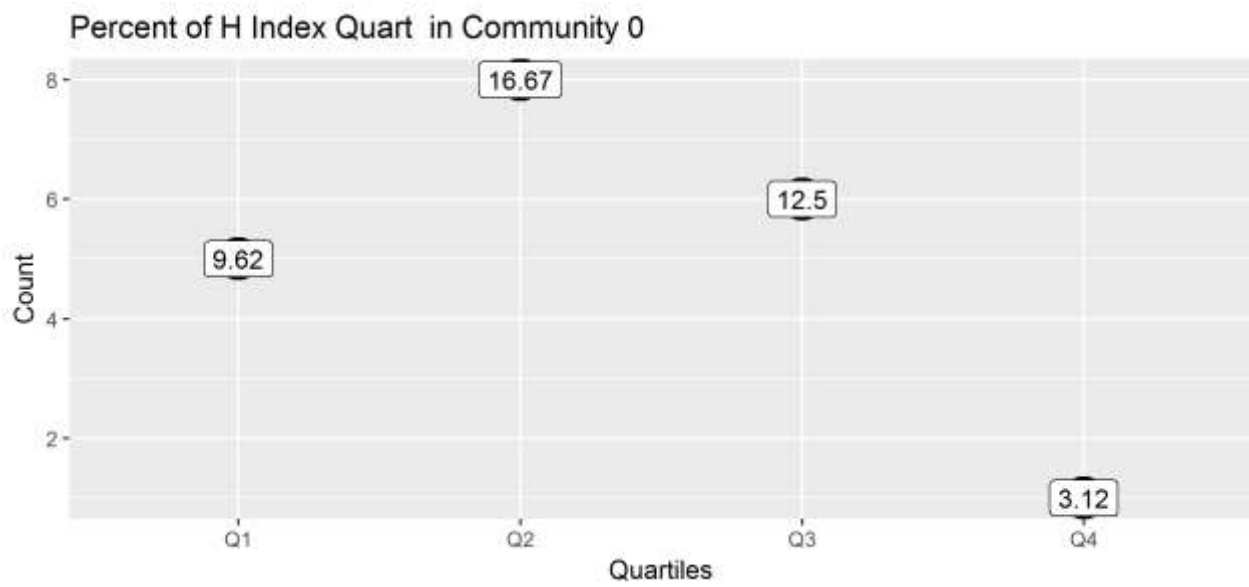


Figure 4.17.0.11 Percent of h index in com. 0

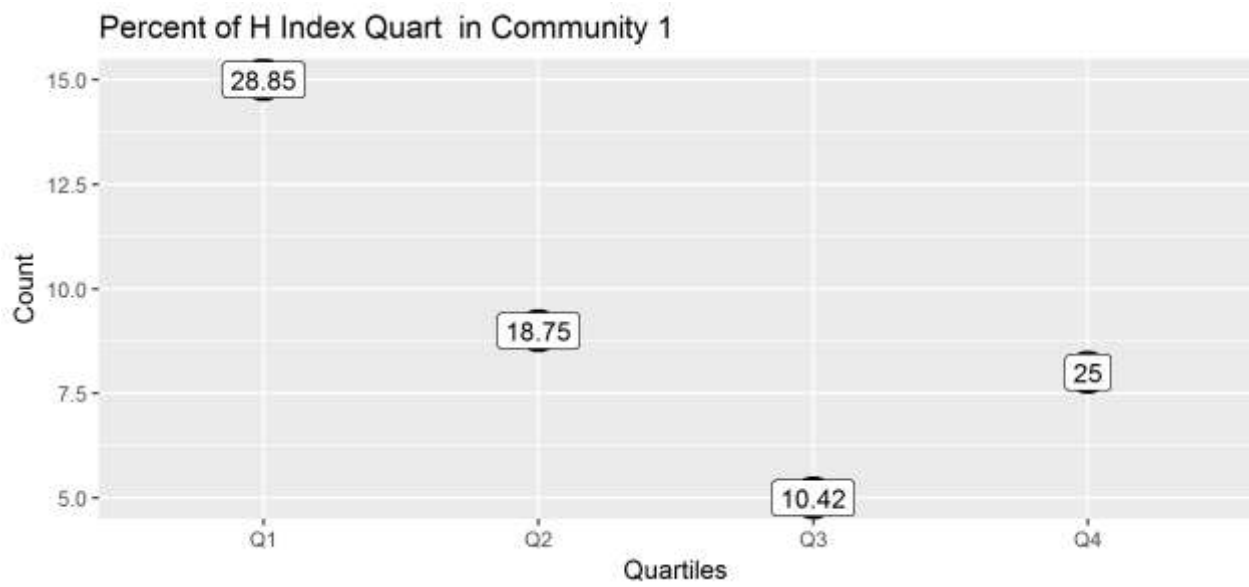


Figure 4.17.0.12 Percent of h index in com. 1

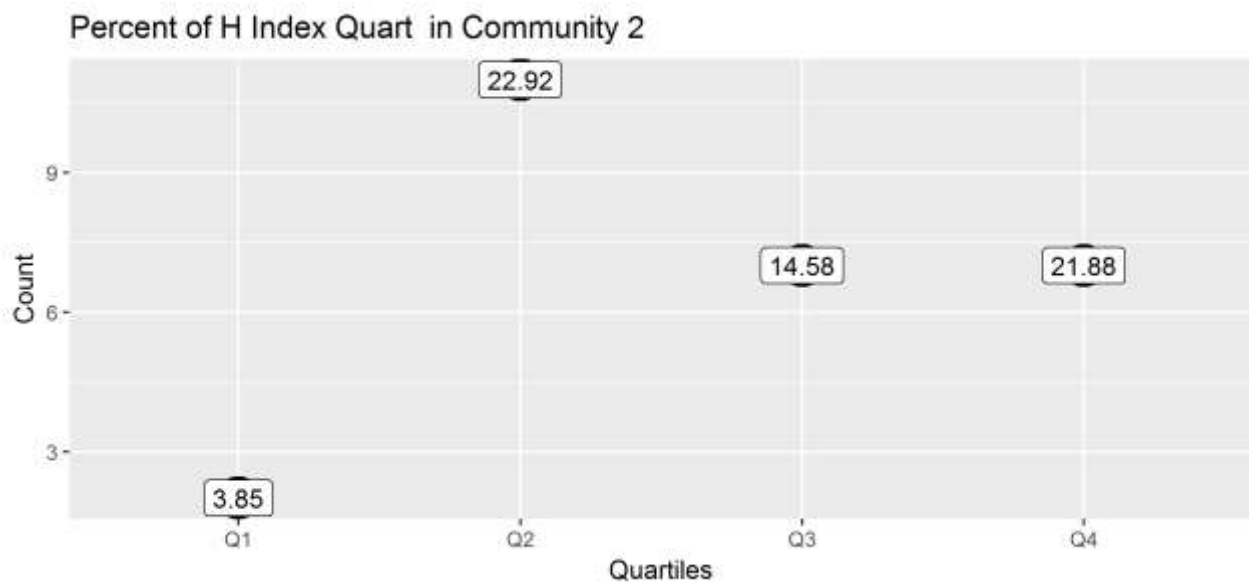


Figure 4.17.0.13 Percent of h index in com. 2

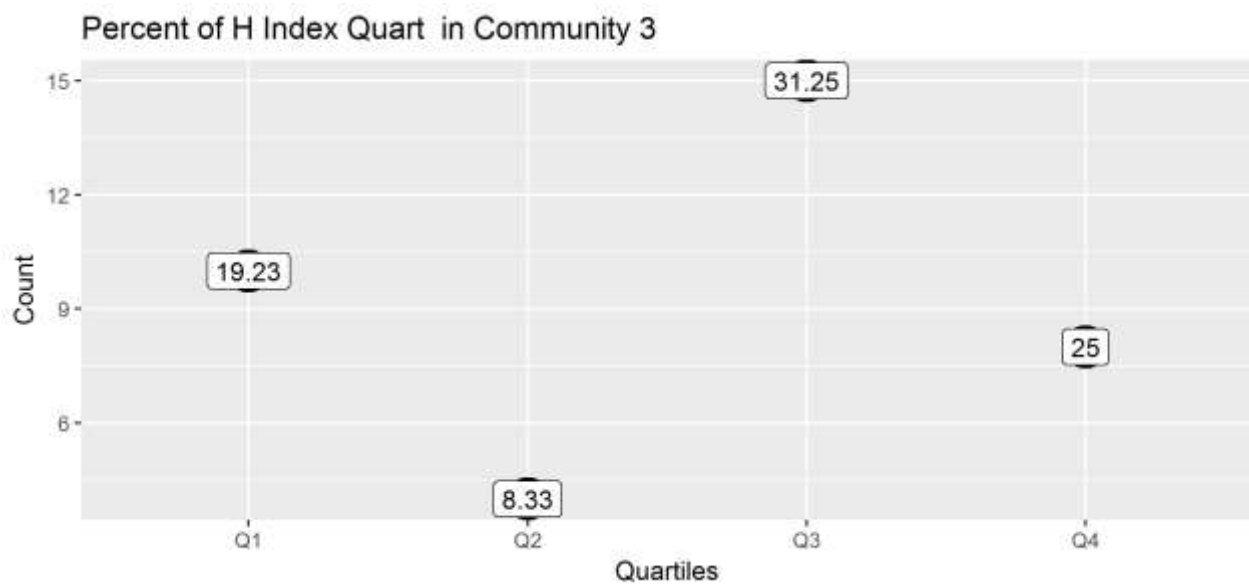


Figure 4.17.0.14 Percent of h index in com. 3

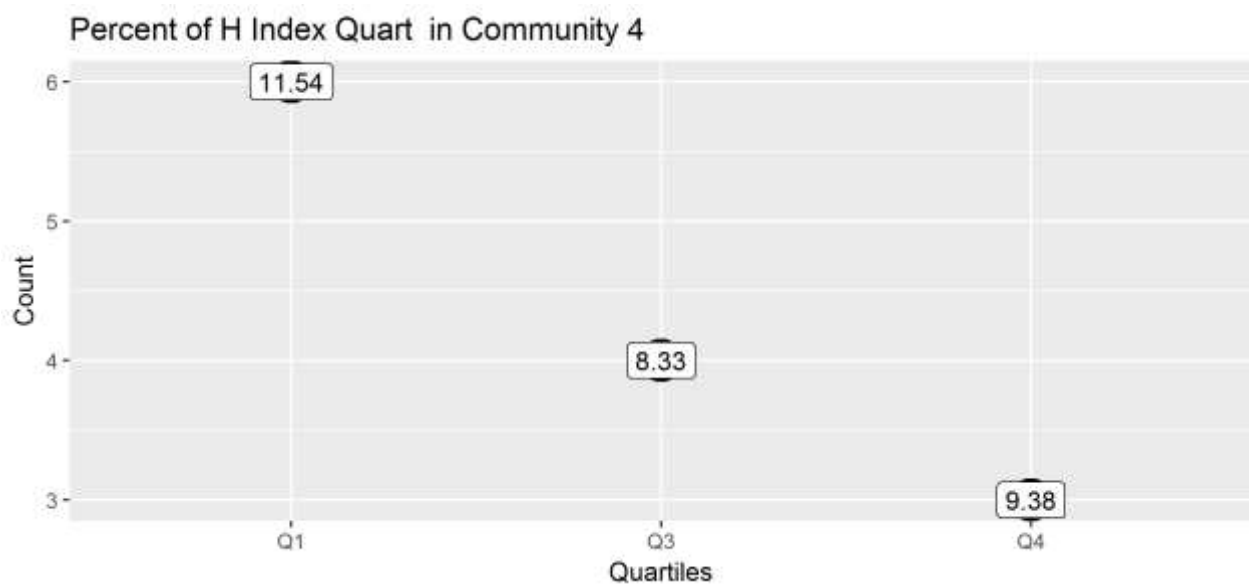


Figure 4.17.0.15 Percent of h index in com. 4

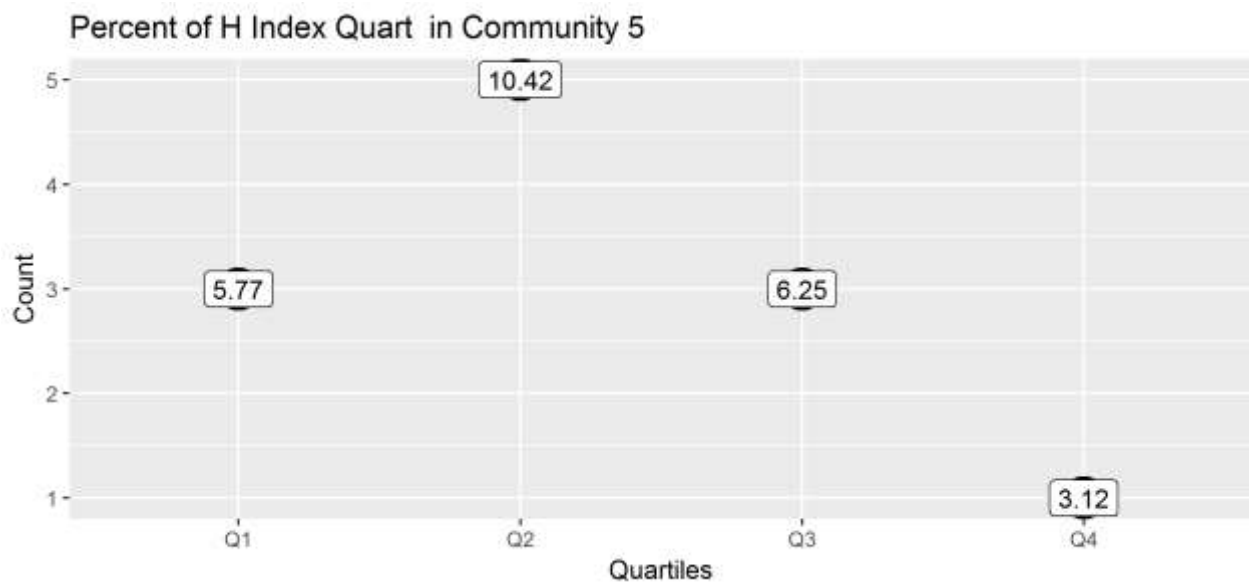


Figure 0.16 Percent of h index in com. 5

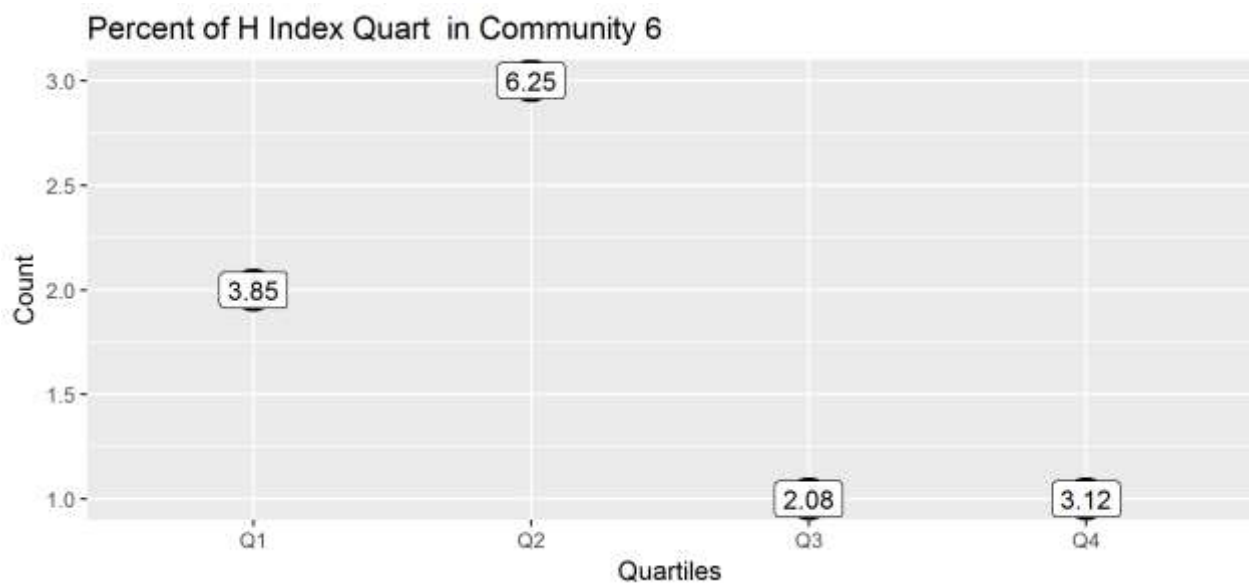


Figure 4.17.0.17 Percent of h index in com. 6

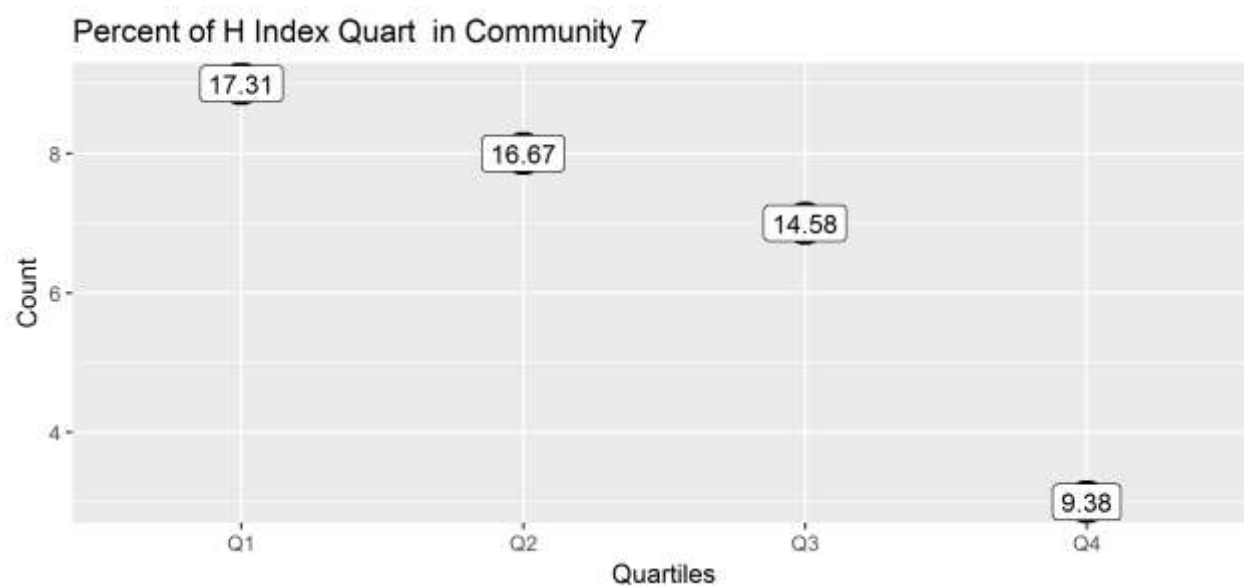


Figure 4.17.0.18 Percent of h index in com. 7

Degree & Weighted Degree

Finally a line graph is constructed that shows the total weighted and unweighted degree in each community. The red line shows the total weighted degree and the black line the total degree in each weighted modularity network. Also to visual the difference between weighted and unweighted degree in the communities the blue line was added which shows the total degree in the unweighted network in each community. From the red and black line we see that the difference between the weighted degree and degree is mostly proportional, both lines follow the same path and in some cases the slope is steeper.

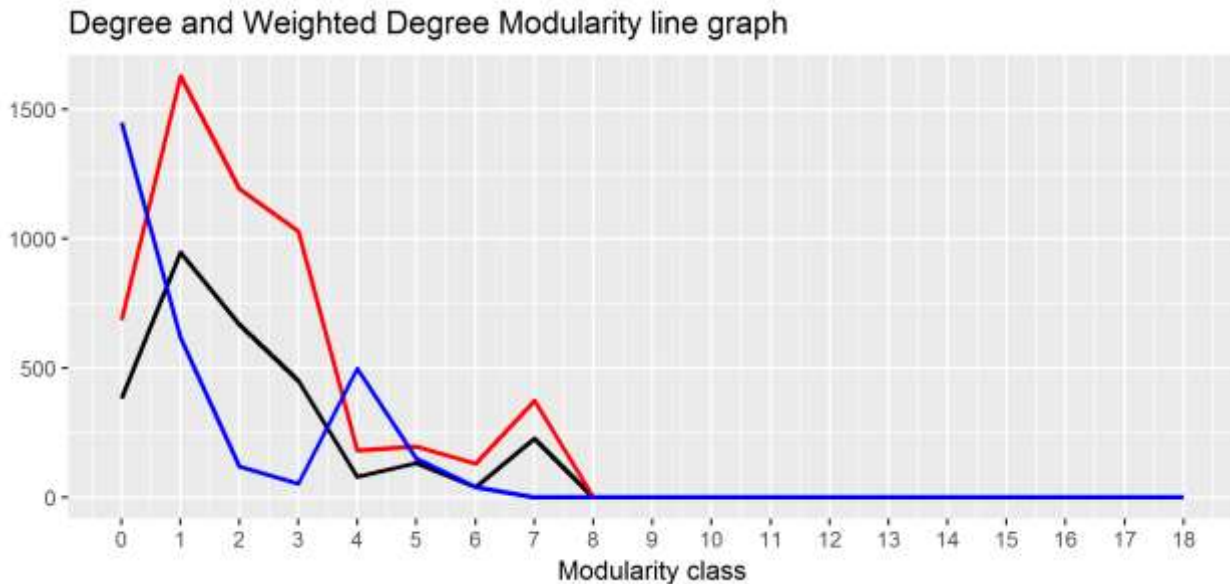


Figure 4.17.0.19 Degree & Weighted Degree

Weighted Degree= Red line and Degree = Black line in weighted modularity and Degree= Blue line in unweighted modularity

4.5 Networks Conclusion

From chapter 4 we concluded that the scientometric indicators SJR and H Index don't have an impact on the journals centrality network. Even for the top Sjr journals from our list such as *journal of finance*, *review of financial studies* or *journal of financial economic* they are not the most centralized journals. At first we expected for the top Sjr journals to be the more central in the network because of their high prestige but then as we examined the editorial boards the key role for the network is the connections that these editorial boards create. These connections were measured and the results were surprising, journals that were almost last in our list are the most centralized in the network. From the most simple centrality measure, the degree, *journal of banking and finance* and *review of development finance* are the journals with the most connections 57 and 55 respectively. Another measurement, betweenness centrality, also showed the same journals, *journal of banking and finance* and *review of development finance*, to be the journals with the higher betweenness but in an opposite order and also the rest of the journals have been ranked different. For example *journal of business finance and accounting* is the 3rd journal with the higher betweenness, so is one of the most central journals that could possibly exchange messages faster than the other journals but it has 33 connections, which make it ranked 22nd by the degree ranking. Furthermore the eigenvector centrality almost showed the same results as the degree, expected, but in different order, *journal of banking and finance* is again ranked the 1st but 2nd is the *pacific basin finance journal* and 3rd the *review of development finance* and the same feature continues to all the observations with one surprising difference *annals of finance* that was ranked 11th and with eigenvector sorting is 24th. Finally the pagerank centrality moreover has the same ranking order as the degree with mere differences. A graph is presented to show all the conclusion and which centralities match each other.

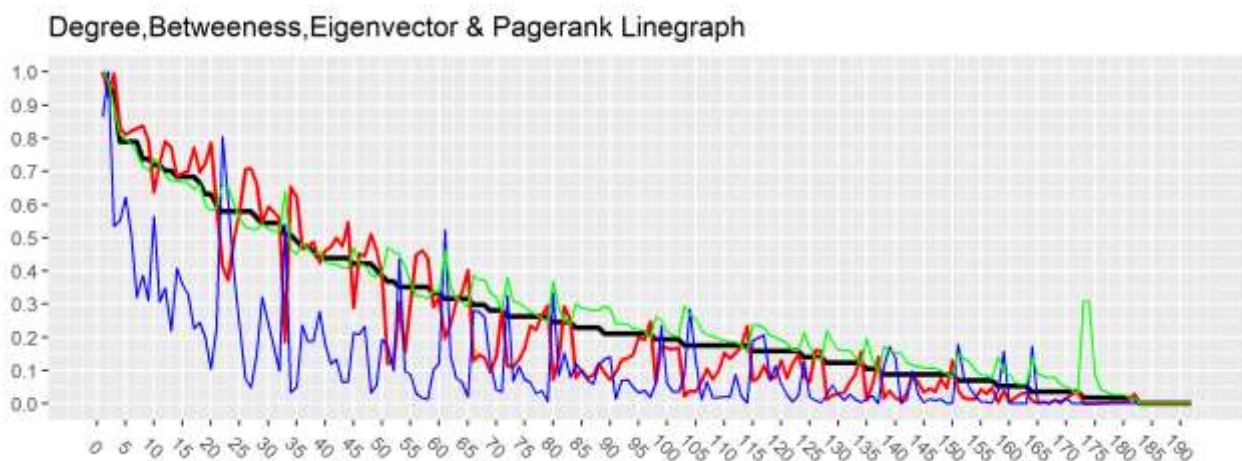
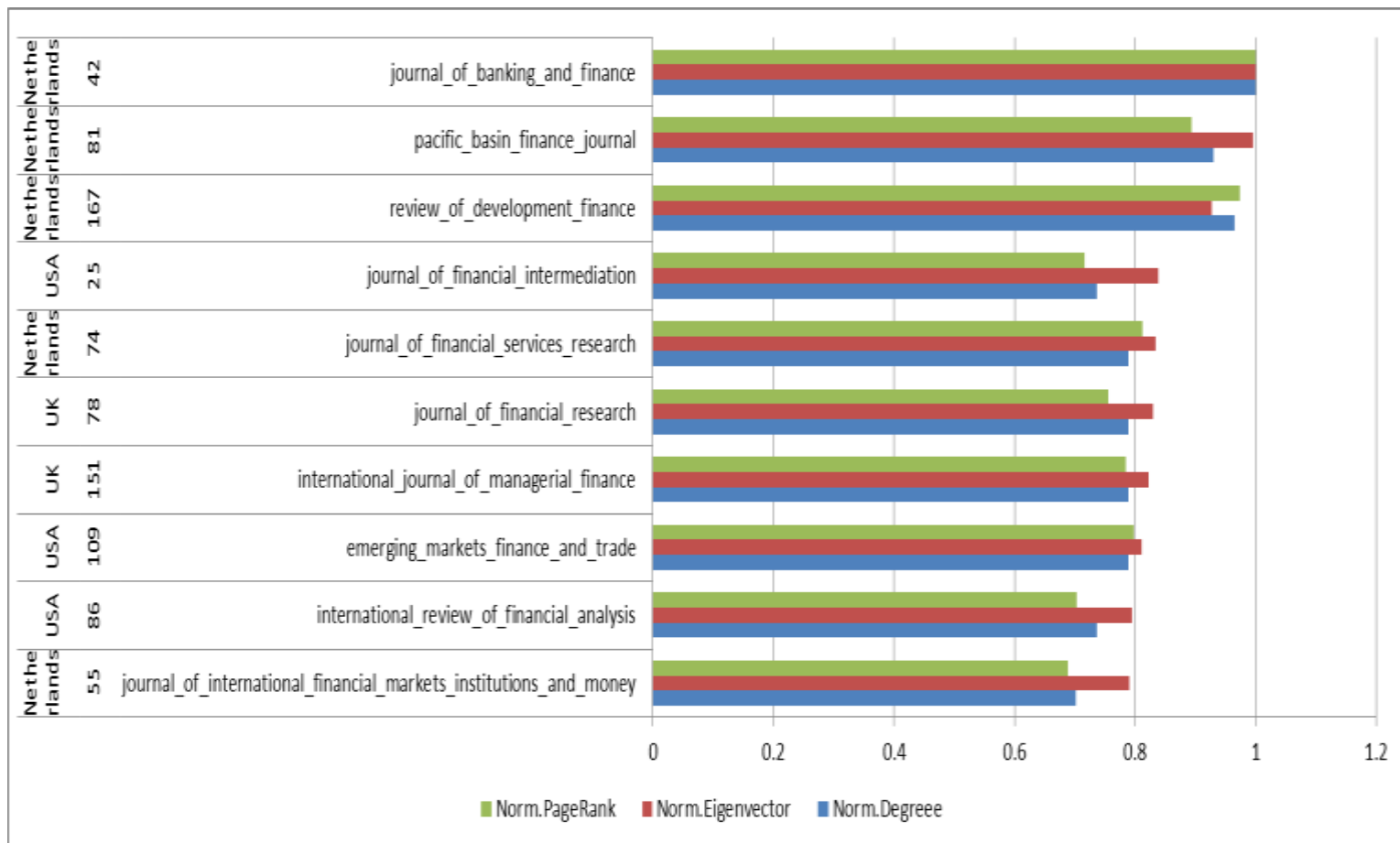


Figure 4.18.0.1 Degree, Betweenness, Eigenvector & Pagerank Linegraph

The line graph is sorted by the degree measurement and the black line corresponds to the degree. The red line is the eigenvector, the green line the Pagerank and the blue line the betweenness.



This final graph shows us the top 10 central journals. It is to be noticed that these journals don't hold a high rank in the SCImago list. One idea is that in the top rank journals the editorial boards don't hold multiple seats and maybe they do this so they have a more closed network. On the other hand the more low rank journals allow their editorial board to be in multiple editorial boards because their editorial board is not with high ranked editors and they create a 2nd smaller elite group of gatekeepers with much more connections.

Journal of Finance	Review of Financial Studies	Journal of Financial Economics	Journal of Accounting and Economics	Journal of Management	Family Business Review	Journal of Accounting & Research	Handbook of the Economics of Finance	Handbook of Public Economics	Accounting & Review	Journal of Monetary Economics
1	2	3	4	5	6	7	8	9	10	11
14.546	9.925	9.92	6.834	6.617	5.882	5.733	5.404	5.111	4.478	4.15
213	118	170	104	145	55	99	14	15	103	93
United Kingdom	United Kingdom	Netherlands	Netherlands	United States	United States	United Kingdom	Netherlands	Netherlands	United States	Netherlands
44.9	47.87	45.36	42.78	93.47	59.09	54.16	0	0	47.76	33.89
5.33	3.21	3.86	3.73	6.07	4.87	2.88	2.96	3.14	2.61	2.67
202	275	373	120	192	50	98	23	7	209	183
1235	1106	2020	591	1531	419	378	68	22	855	473
3457	4165	5806	1540	7197	1359	1679	0	0	2388	2982
207	278	411	132	207	62	115	25	9	219	222
77	87	128	36	77	23	31	0	0	50	88
Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1
00221082	14657368	0304405X	01654101	01492063	08944865	00218456	15740102	15734420	00014826	03043932
journal	journal	journal	journal	journal	journal	journal	book series	book series	journal	journal

Appendix A Tables

This

SCImago Finance 2015

Journal of International Economics	Annual Review of Financial Economics	Review of Finance	Journal of Financial Markets	Finance and Stochastic Processes	Journal of Financial and Quantitative Analysis	Contemporary Accounting Research	Journal of Public Economics	Journal of Risk and Uncertainty	Foundations and Trends in Finance	Journal of Money, Credit and Banking	Long Range Planning
12	13	14	15	16	17	18	19	20	21	22	23
3.723	3.629	3.505	3.233	3.019	2.998	2.594	2.267	2.127	1.985	1.973	1.958
98	13	34	41	30	80	63	95	55	11	77	69
Netherlands	United States	United Kingdom	Netherlands	Germany	United Kingdom	United States	Netherlands	Netherlands	United States	United States	United Kingdom
42.19	108.05	46.24	29.63	31.3	41.28	30.39	39.08	40.08	0	31.98	34.42
2.31	1.21	2.31	2.27	1.75	1.75	2.5	1.45	1.53	1.4	1.37	4.06
265	52	132	91	91	171	143	335	67	11	249	64
877	84	332	197	160	342	379	625	118	13	388	309
4092	2377	2728	889	1033	1775	3404	3908	1002	0	2942	2065
270	53	132	96	92	172	155	362	74	11	258	87
97	22	59	30	33	43	112	100	25	0	92	60
Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1
ISSN 00221996	ISSN 19411367	ISSN 15723097	ISSN 13864181	ISSN 14321122	ISSN 00221090	ISSN 08239150	ISSN 00472727	ISSN 15730476	ISSN 15672395	ISSN 15384616	ISSN 00246301
journal	journal	journal	journal	journal	journal	journal	journal	journal	book series	journal	journal

Management Accounting Research	Journal of Financial Intermediation	Journal of International Management	Real Estate Economics	SIAM Journal on Financial Mathematics	Operations Research and Management Science	European Economic Review	Mathematical Finance	Journal of World Business	Auditing	Games and Economic Behavior	International Review of Finance
24	25	26	27	28	29	30	31	32	33	34	35
1.913	1.861	1.829	1.775	1.766	1.749	1.712	1.671	1.656	1.652	1.596	1.493
56	52	46	45	15	8	92	55	67	48	68	8
United States	United States	United States	United Kingdom	United States	Netherlands	Netherlands	United Kingdom	United States	United States	United States	United Kingdom
38.73	42.62	90.35	18.8	29	174	38.36	16.5	63.48	58	27.61	33.4
3.55	2.4	2.84	1.05	1.1	2.13	1.22	1.8	3.66	2.32	1.03	0.78
59	83	82	89	88	15	328	92	171	110	429	56
264	195	249	115	131	42	554	150	697	266	482	79
852	895	2078	1015	261	870	4757	924	6285	2320	2816	835
72	99	84	95	88	15	334	112	190	113	456	61
22	21	23	54	9	5	124	56	99	40	102	25
Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1
10961224	10960473	10754253	15406229	1945497X	18767354	00142921	09601627	10909516	02780380	10902473	1369412X
journal	journal	journal	journal	journal	book series	journal	journal	journal	journal	journal	journal

Journal of Risk and Insurance	Journal of Corporate Finance	World Bank Economic Review	Foundations and Trends in Accounting	Journal of International Money and Finance	Journal of Financial Economics	Journal of Banking and Finance	Journal of Financial Stability	Financial Analysts Journal	Journal of Real Estate Finance and Economics	International Business Review	Critical Perspectives on Accounting
36	37	38	39	40	41	42	43	44	45	46	47
1.489	1.446	1.343	1.331	1.316	1.314	1.264	1.264	1.206	1.144	1.1	1.004
44	61	65	8	65	27	102	25	57	45	63	41
United Kingdom	Netherlands	United Kingdom	United States	United Kingdom	United Kingdom	Netherlands	Netherlands	United States	Netherlands	United Kingdom	United States
23.67	46.62	30.11	71	33.73	42.64	45.86	37.94	30	13.68	69.35	73.04
1.73	1.53	1.09	1.5	1.73	1.15	1.75	1.93	0.77	0.81	2.49	2.03
116	271	65	6	376	75	947	127	88	195	261	144
205	515	96	8	746	102	1867	283	121	208	740	311
1444	6107	1325	71	4351	938	13208	2997	60	807	7420	4894
124	295	65	6	401	76	1033	168	145	228	320	179
61	131	44	1	129	22	288	79	2	59	107	67
Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1
00224367	09291199	1564698X	15540642	02615606	14798409	03784266	15723089	0015198X	08955638	09695931	10959955
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

China Economic Review	ASTIN Bulletin	International Journal of Central Banking	Venture Capital	International Review of Economics and Finance	Technological and Economic Development of Economy	Journal of Empirical Finance	Financial Markets, Institutions and Money	Journal of the American Taxation Association	Mathematics and Financial Economics	Financial Management	American Law and Economics Review
48	49	50	51	52	53	54	55	56	57	58	59
0.997	0.979	0.954	0.939	0.89	0.89	0.879	0.872	0.859	0.858	0.837	0.824
46	19	11	25	30	31	54	31	11	9	47	23
Netherlands	United Kingdom	Germany	United Kingdom	United States	Lithuania	Netherlands	Netherlands	United States	Germany	United States	United Kingdom
36.9	33.16	28.87	56.21	27.91	25.6	40.71	44.15	39.88	18.19	35.31	40.44
1.2	0.53	1.12	1.88	1.75	1.81	0.94	1.3	0.69	0.64	1	0.97
249	85	134	49	314	142	203	269	40	63	96	47
404	58	129	94	529	285	241	407	27	51	124	42
3284	630	1588	1068	4550	2176	2524	3444	678	291	1377	647
275	87	138	53	352	146	232	275	46	71	96	49
89	19	55	19	163	85	62	78	17	16	39	16
Q1	Q1	Q1	Q1	Q1	Q1	Q2	Q2	Q2	Q2	Q2	Q2
ISSN 1043951X	ISSN , 17831350	ISSN 18154654	ISSN , 14645343	ISSN 10590560	ISSN , 20294913	ISSN 09275398	ISSN 10424431	ISSN , 15588017	ISSN 18629679	ISSN 00463892	ISSN 14657252
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

International Tax and Public Finance	Journal of Environmental and Resource Economics	Journal of Business Finance and Accounting	Annals of Finance	Accounting Information Systems	National Tax Journal	Journal of Corporate Real Estate	Journal of Theoretical and Applied Finance	Economics Letters	Accounting Forum	International Journal of Accounting	Review of Financial Economics
60	61	62	63	64	65	66	67	68	69	70	71
0.799	0.783	0.716	0.686	0.657	0.644	0.633	0.628	0.612	0.612	0.611	0.605
37	13	51	14	35	43	5	20	64	27	36	26
United States	United States	United Kingdom	Germany	United States	United States	United Kingdom	Singapore	Netherlands	Australia	United Kingdom	United States
17.86	123	59.13	23.06	56.39	0	40.38	25.66	11.61	81.17	42.86	37.35
0.61	0.85	1.04	0.44	2.13	0.58	1.16	0.41	0.64	1.7	1.34	0.84
134	20	139	84	56	66	31	164	1587	68	47	65
136	26	176	52	144	66	36	87	1126	124	98	61
625	246	2365	415	1015	0	646	1437	4969	1948	943	971
156	20	140	89	72	68	31	166	1599	74	75	70
35	2	40	18	18	0	16	56	428	24	22	26
Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2
09275940	19321473	ISSN 0306686X	ISSN 16142454	ISSN 14670895	ISSN 00280283	ISSN 1463001X	ISSN 02190249	ISSN 01651765	ISSN 01559982	ISSN 10944060	ISSN 10583300
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

North	American Journal of Economics and Finance	Journal of Financial Counseling and Planning	Journal of Financial Services Research	Journal of Asian Economics	Quantitative Finance	Tax Policy and the Economy	Journal of Financial Research	Accounting and Finance	Applied Mathematical Finance	Pacific Basin Finance Journal	Geneva Papers on Risk and Insurance: Issues and Practice	Fiscal Studies
72	73	74	75	76	77	78	79	80	81	82	83	
0.578	0.573	0.572	0.572	0.565	0.558	0.547	0.547	0.545	0.541	0.53	0.526	
24	24	36	31	36	6	22	30	20	36	19	29	
United States	United States	Netherlands	Netherlands	United Kingdom	United States	United Kingdom	Australia	United Kingdom	Netherlands	United Kingdom	United Kingdom	
41.61	44.8	3.87	35.8	32.35	31.8	39.4	20.33	24.14	45.88	42.2	23.81	
1.31	0.87	0.71	0.9	0.72	0.33	0.48	1.01	0.53	1.26	0.58	1.13	
172	33	83	138	419	17	69	163	66	175	100	66	
210	34	90	169	335	8	52	208	36	235	63	80	
3287	672	89	1611	4852	159	788	2196	531	3579	1266	643	
176	34	100	148	428	18	70	167	71	179	111	70	
79	15	23	45	150	5	20	108	22	78	30	27	
Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	
ISSN 10629408	ISSN 10523073	' 09208550	ISSN 10490078	' 14697696	' 15372650	' 14756803	ISSN 08105391	' 1350486X	ISSN 0927538X	' 10185895	' 01435671	
journal	journal	journal	journal	journal	book series	journal	journal	journal	journal	journal	journal	journal

Journal of Futures Markets	Journal of European Real Estate Research	International Review of Financial Analysis	Asian Economic Papers	Annals of Economics and Finance	Journal of Public Economic Theory	International Journal of Finance and Economics	Japan and the World Economy	Financial Review	Journal of Accountin g, Auditing and Finance	Review of Quantitati ve Finance and Accountin g	Quarterly Review of Economics and Finance
84	85	86	87	88	89	90	91	92	93	94	95
0.52	0.52	0.505	0.499	0.485	0.484	0.477	0.477	0.477	0.471	0.452	0.451
38	7	29	10	9	24	30	24	7	21	29	34
United States	United Kingdom	United States	United States	China	United Kingdom	United Kingdom	Netherlan ds	United States	United States	United States	Netherlan ds
24.23	49.53	25.79	8.65	26.63	27.73	31.76	34.5	38.09	55.14	9.78	32.22
0.76	0.81	1.08	0.55	0.49	0.39	0.29	0.71	0.75	0.75	0.55	0.64
152	44	287	44	79	122	76	82	88	56	185	128
132	35	321	33	64	66	50	69	56	53	109	102
1963	743	3637	519	639	1220	921	690	876	1213	636	2449
166	44	330	119	79	124	76	91	88	57	236	147
81	15	141	60	24	44	29	20	23	22	65	76
Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2
10969934	ISSN 17539269	ISSN 10575219	ISSN 15360083	ISSN 15297373	ISSN 10973923	ISSN 10991158	ISSN 09221425	ISSN 15406288	ISSN 0148558X	ISSN 15737179	ISSN 10629769
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

Journal of Portfolio Management ent	Journal of Health Care Finance and Economics	World Economy	Investment Analysts Journal	International Business and Finance	Public Budgeting and Finance	Journal of Revenue and Pricing Management ent	Economic International	the Japanese and International Economies	GENEVA Risk and Insurance Review	Finance Research Letters	Journal of Education Finance
96	97	98	99	100	101	102	103	104	105	106	107
0.446	0.446	0.432	0.432	0.43	0.422	0.419	0.412	0.409	0.407	0.405	0.397
34	21	48	7	21	10	12	10	30	15	17	9
United States	Netherland s	United Kingdom	South Africa	United States	United States	United Kingdom	France	United States	United Kingdom	Netherland s	United States
12.47	0	25.21	44.17	33.25	46.71	20.6	0	30.53	23.56	12.22	14.1
0.42	0.65	0.67	0.62	1.09	0.32	0.47	0.2	0.6	0.16	0.52	0.5
132	53	257	37	104	67	125	20	97	30	100	48
76	41	232	34	114	27	70	11	60	12	69	23
187	0	3681	530	2527	794	927	0	977	212	1332	832
145	54	261	37	116	73	142	20	102	31	105	49
15	0	146	12	76	17	45	0	32	9	109	59
Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q3
ISSN 00954918	ISSN 15736962	ISSN 03785920	ISSN 10293523	ISSN 02755319	ISSN 02751100	ISSN 14766930	ISSN 12408093	ISSN 10958681	ISSN 1554964X	ISSN 15446131	ISSN 00989495
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

nal Financial Management ent and Accountn g	Emerging Markets Finance and Trade	Internatio nal Review of Law and Economics	Internatio nal Finance	Global Finance Journal	Internatio nal Accountin g, Auditing and Taxation	Financial History Review	Econometr ics and Internatio nal Developm ent	Risk Managem ent	Public Finance Review	W/SEAS Transactio ns on Business and Economics	Accountin g in Europe
108	109	110	111	112	113	114	115	116	117	118	119
0.395	0.383	0.369	0.36	0.347	0.345	0.342	0.341	0.332	0.33	0.327	0.325
25	20	32	30	22	27	11	5	8	22	9	10
United Kingdom	United States	United States	United Kingdom	Netherlan ds	United Kingdom	United Kingdom	Spain	United Kingdom	United States	Greece	United Kingdom
37.88	24.78	35.64	29.71	30.06	62.92	48.53	31.48	68.24	24.67	30.4	38.82
1.44	0.89	0.56	0.57	0.69	1.24	0.37	0.28	0.52	0.63	0.6	0.59
27	272	120	51	50	30	41	85	38	98	124	34
41	242	82	32	46	42	19	23	26	62	67	25
606	5228	2067	505	481	818	728	850	1160	888	912	427
27	305	123	54	54	30	45	85	40	98	124	38
16	211	58	17	16	13	15	27	17	36	30	11
Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3
09541314	ISSN 1540496X	ISSN 01448188	ISSN 14682362	ISSN 10440283	ISSN 10619518	ISSN 14740052	ISSN 15784487	ISSN 14603799	ISSN 10911421	ISSN 11099526	ISSN 17449480
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

International Journal of Digital Accounting Research	Advances in Accounting	Journal of Property Investment and Finance	Asian Review of Accounting	Studies in Economics and Finance	Zbornik Radova Ekonomskog Fakulteta u Rijeci	Journal of Pension Economics and Finance	Journal of Multinational Financial Management	Review of Derivatives Research	Journal of Financial Services Marketing	Journal of Economics and Finance	Prague Economic Papers
120	121	122	123	124	125	126	127	128	129	130	131
0.31	0.299	0.294	0.29	0.289	0.281	0.279	0.278	0.277	0.273	0.272	0.27
6	15	17	7	9	5	9	27	20	10	19	7
United States	United States	United Kingdom	United Kingdom	United Kingdom	Croatia	United States	Netherlands	United States	United Kingdom	United States	Czech Republic
47	46.9	31.97	61.27	43.08	39.23	15.42	55.37	21.88	44.6	10.13	29.9
0.91	0.7	0.56	0.72	0.36	0.58	0.64	0.63	0.6	0.35	0.48	0.6
17	106	102	40	64	37	62	67	30	70	116	86
16	92	56	34	36	20	38	50	19	36	59	53
47	1360	1119	919	1034	510	663	1495	350	1115	527	1256
17	108	103	40	64	40	64	69	35	81	163	86
1	29	35	15	24	13	43	27	16	25	52	42
Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3
ISSN 15778517	ISSN 08826110	ISSN 1463578X	ISSN 13217348	ISSN 10867376	ISSN 13318004	ISSN 14747472	ISSN 1042444X	ISSN 13806645	ISSN 13630539	ISSN 10550925	ISSN 12100455
journal	book series	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

Management of Property and Construction	Financial Markets, Institutions and Instruments	Research in Accounting Regulation	Asia-Pacific Journal of Accounting and Economics	Zeitschrift für die gesamte Versicherungswissenschaft	Universia Business Review	Journal of Behavioral Finance	International Journal of Managerial Finance	Journal of Wealth Management	Targeting, Measurement and Analysis for Marketing	Journal of Internet Banking and Commerce	Management and Financial Innovations
144	145	146	147	148	149	150	151	152	153	154	155
0.234	0.233	0.225	0.221	0.22	0.219	0.217	0.212	0.211	0.211	0.211	0.209
1	15	9	6	5	5	5	11	6	8	11	7
United Kingdom	United Kingdom	United States	China	Germany	Spain	United Kingdom	United Kingdom	United States	United Kingdom	Canada	Ukraine
51.25	47.36	29.59	20.11	30.97	27.05	39.66	39.61	0	0	38.41	30.7
0.64	0.33	0.64	0.38	0.15	0.3	0.5	0.39	0.17	0	0.32	0.23
11	24	61	61	82	77	79	65	94	22	120	199
7	9	48	19	17	30	46	34	18	13	66	47
820	521	651	744	929	568	1150	1109	0	0	2420	2118
11	25	65	78	87	79	80	65	103	22	129	199
16	11	22	37	30	21	29	28	0	0	63	69
Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3
13664387	09638008	10520457	16081625	18659748	16985117	15427579	17439132	15347524	09673237	12045357	18129358
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

Journal of Emerging Market Finance	Journal of Banking Law	Journal of Monetary Economics and Finance	Afro-Asian Journal of Finance and Accounting	Spanish Review of Financial Economics	International Journal of Electronic Finance	Risk Management and Insurance Review	Comptabilite Controle Audit	Financiación y Contabilidad	Indian Journal of Finance	Asia-Pacific Financial Markets	Review of Development Finance
156	157	158	159	160	161	162	163	164	165	166	167
0.207	0.206	0.206	0.205	0.205	0.2	0.197	0.197	0.194	0.192	0.19	0.188
5	4	6	3	3	1	8	3	10	2	15	6
India	United States	Switzerland	United Kingdom	Spain	Switzerland	United Kingdom	France	Spain	India	United States	Netherlands
43.55	0	33.54	47.37	20.33	50.33	38.36	59.13	66.95	27.75	21.58	17.42
0.5	0	0.21	0.31	0.31	0.8	0.81	0.27	0.37	0.32	0.16	0.81
33	23	62	39	24	5	41	46	59	103	55	41
12	3	18	13	8	4	26	21	21	33	12	29
479	0	939	900	244	453	537	887	1406	1332	259	209
33	28	64	39	24	5	42	52	61	103	56	43
11	0	28	19	12	9	14	15	21	48	12	12
Q3	Q3	Q3	Q4	Q3	Q4	Q4	Q4	Q4	Q4	Q4	Q4
ISSN 09726527	ISSN 00055506	ISSN 17520479	ISSN 17516447	ISSN 21731268	ISSN 17460077	ISSN 10981616	ISSN 12622788	ISSN 02102412	ISSN 09738711	ISSN 13872834	ISSN 18799337
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal

Budgeting, Accounting and Financial Management	Review of Accounting and Finance	Journal of Derivatives	Economia Politica	Algorithmic Finance	Management Journal of Accounting and Finance	International Finance Review	African Finance Journal	Decisions in Economics and Finance	Journal of Alternative Investments	Journal of Behavioral and Experimental Finance	Journal of Banking Regulation
168	169	170	171	172	173	174	175	176	177	178	179
0.187	0.185	0.184	0.184	0.182	0.175	0.169	0.168	0.167	0.166	0.165	0.16
4	4	10	7	3	5	6	2	10	11	3	7
United States	United Kingdom	United States	Italy	Netherlands	Malaysia	Netherlands	South Africa	Italy	United States	Netherlands	United Kingdom
49.88	40.95	0	33.42	32.56	50.21	34.14	36.75	22.56	33	36.72	46.32
0.17	0.46	0.15	0.07	0.7	0.07	0.14	0.35	0.43	0.17	0.76	0.2
75	59	71	61	29	52	42	17	43	73	21	61
13	29	14	12	18	22	7	6	17	22	16	14
399	860	0	635	293	703	478	294	203	33	1065	880
79	60	86	64	30	52	42	17	48	85	22	64
8	21	0	19	9	14	14	8	9	1	29	19
Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4
ISSN 10963367	ISSN 14757702	ISSN 10741240	ISSN 11202890	ISSN 21585571	ISSN 19858299	ISSN 15693767	ISSN 16059786	ISSN 15938883	ISSN 15203255	ISSN 22146369	ISSN 17456452
journal	journal	journal	journal	journal	journal	book series	journal	journal	journal	journal	journal

of Accounting and Financial Studies Journal	International Journal of Business and Society	Journal of Fixed Income	Journal of Disclosure and Governance	Journal of Banking, Accounting and Finance	Revue d'Etudes Comparatives Est-Ouest	Finance and Development	Accounting, Auditing and Performance Evaluation	International Journal of Revenue Management	Hacienda Publica Espanola	Journal of Finance and Economics	Research in Finance
180	181	182	183	184	185	186	187	188	189	190	191
0.159	0.159	0.158	0.156	0.153	0.15	0.145	0.143	0.138	0.13	0.13	0.125
3	5	8	11	5	6	23	9	8	7	12	5
United States	Malaysia	United States	United Kingdom	Switzerland	France	United States	United Kingdom	United Kingdom	Spain	United Kingdom	United States
31.68	46.17	0	68.18	27.5	50.65	2.88	59	42.09	42.6	0	30.8
0.12	0.26	0.14	0.26	0.47	0.11	0.58	0.11	0.19	0.26	0	0
93	87	65	61	30	66	86	53	36	58	210	22
14	27	12	22	12	5	42	9	10	14	51	3
1964	1385	0	1159	110	1013	190	944	463	426	0	308
105	88	76	66	32	70	187	53	36	58	210	25
62	30	0	17	4	20	66	16	11	10	0	10
Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4
ISSN 10963685	ISSN 15116670	ISSN 10598596	' 17413591	' 17553849	ISSN 03380599	' 15645142	' 17408016	' 17418186	ISSN 02101173	ISSN 14502887	ISSN 01963821
journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	journal	book serie

Business Valuation and Economic Loss Analysis	Advances in Financial Economics	Journal of Derivative s and Hedge Funds	International Journal of Business	Pensions	Economia Chilena	nomics and Finance in Emerging Market Economies	Control: Financial Markets and Institution s	Advances in Taxation	Risk and Decision Analysis	JASSA	Banking and Finance Review
192	193	194	195	196	197	198	199	200	201	202	203
0.124	0.114	0.114	0.114	0.113	0.113	0.113	0.113	0.112	0.112	0.11	0.11
4	7	5	4	3	3	4	2	4	5	2	3
Germany	United States	United Kingdom	United States	United Kingdom	Chile	United Kingdom	Ukraine	United States	Netherlan ds	Australia	United States
76.75	51.25	0	30.18	0	22.69	24.13	33.14	47.29	0	0	34.09
0.15	0.15	0.2	0.11	0	0.04	0.18	0.09	0	0.19	0.25	0
19	21	53	69	38	36	48	101	15	55	45	30
2	4	11	15	6	2	8	7	2	11	5	2
307	410	0	664	0	363	579	2784	331	0	0	375
19	21	58	69	42	47	55	122	15	60	47	30
4	8	0	22	0	16	24	84	7	0	0	11
Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4
ISSN 19329156	ISSN 15693732	ISSN ' 1753965X	ISSN 10834346	ISSN ' 14785315	ISSN 07173830	ISSN ' 17520851	ISSN ' 20774303	ISSN 10587497	ISSN ' 18759173	ISSN 03135934	ISSN ' 19476140
journal	book serie	journal	journal	journal	journal	journal	journal	book serie	journal	journal	journal

Research in Accounting in Emerging Economies	Journal of Private Equity	Accounting & Business and Finance Journal	ATA Journal of Legal Tax Research	Real Estate Taxation	Academy of Banking Studies Journal	Journal of Taxation	Entrepreneurship, Innovation, and Economic Growth	International Insolvency Review	Intelligence and Financial Engineering, BIFE 2013	Engineering and Economics , CIFE 2012 - Proceedings
204	205	206	207	208	209	210	211	212	213	214
0.107	0.104	0.104	0.103	0.102	0.102	0.101	0.101	0.101	0.101	0.1
6	6	1	1	2	2	6	5	2	1	1
United Kingdom	United States	Australia	United States	United States	United States	United States	United States	United Kingdom	United States	United States
80.43	0	45.57	21.78	0	0	0	39.86	15.2	0	0
0.11	0.07	0.1	0	0	0	0	0.05	0.11	0.01	0
37	92	31	8	13	15	26	20	23	142	64
4	4	3	0	0	2	1	1	2	2	0
563	0	1048	196	0	0	0	279	228	0	0
39	102	33	8	16	17	33	22	31	144	65
7	0	23	9	0	0	0	7	15	0	0
Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	-	-
ISSN 14793563	ISSN 10965572	ISSN 18342000	ISSN 1543866X	ISSN 00935107	ISSN 19392249	ISSN 00224863	ISSN 10484736	ISSN 10991107	-	-
book series	journal	journal	journal	journal	journal	journal	book series	journal	proceeding	proceeding

Table 50 SCImago Finance 2015

Journal's Tiers percentages

ID	Journal	Tier1	Tier2	Tier3
1	journal_of_finance	8.33	91.67	0
2	review_of_financial_studies	24.24	69.7	0
3	journal_of_financial_economics	5.41	70.27	18.92
4	journal_of_accounting_and_economics	20.51	76.92	2.56
5	journal_of_management	0.33	4.56	95.11
6	family_business_review	0.71	13.57	85.71
7	journal_of_accounting_research	6.38	2.13	91.49
10	accounting_review	95	0	0
11	journal_of_monetary_economics	4.65	55.81	37.21
12	journal_of_international_economics	21.15	78.85	0
13	annual_review_of_financial_economics	11.76	47.06	0
14	review_of_finance	9.43	67.92	22.64
15	journal_of_financial_markets	8.11	64.86	27.03
16	finance_and_stochastics	16.22	62.16	18.92
17	journal_of_financial_and_quantitative_analysis	10.81	83.78	0
18	contemporary_accounting_research	1.16	16.28	82.56
19	journal_of_public_economics	7.69	57.69	30.77
20	journal_of_risk_and_uncertainty	2.44	43.9	51.22
22	journal_of_money_credit_and_banking	5.13	79.49	15.38
23	longe_range_planning	2.56	12.82	82.05
24	management_accounting_research	1.59	7.94	87.3
25	journal_of_financial_intermediation	4.08	95.92	0
26	journal_of_international_management	1.32	0	98.68
27	real_estate_economics	5.56	0	94.44
28	siam_journal_on_financial_mathematics	3.57	96.43	0
30	european_economic_review	7.69	92.31	0
31	mathematical_finance	6.52	76.09	17.39
32	journal_of_world_business	0.53	7.89	90.53
33	auditing	1.36	6.8	91.16
34	games_and_economic_behavior	5.95	92.86	1.19

35	international_review_of_finance	8.93	73.21	17.86
36	journal_of_risk_and_insurance	14.89	80.85	4.26
37	journal_of_corporate_finance	8.7	89.13	0
38	world_bank_economic_review	10	0	90
39	foundations_and_trends_in_accounting	25	75	0
40	journal_of_international_money_and_finance	10.34	0	86.21
41	journal_of_financial_econometrics	10	60	24
42	journal_of_banking_and_finance	2.02	92.93	5.05
43	journal_of_financial_stability	5.26	56.14	38.6
44	financial_analysts_journal	5.77	17.31	55.77
45	journal_of_real_estate_finance_and_economics	4.92	6.56	88.52
46	international_business_review	1.61	4.84	93.55
47	critical_perspectives_on_accounting	3.61	13.25	83.13
48	china_economic_review	1.72	6.9	91.38
49	astin_bulletin	38.89	0	61.11
50	international_journal_of_central_banking	14.29	85.71	0
51	venture_capital	5.88	0	94.12
52	international_review_of_economics_and_finance	5.26	94.74	0
53	technological_and_economic_development_of_economy	6.56	31.15	62.3
54	journal_of_empirical_finance	12.12	63.64	21.21
55	journal_of_international_financial_markets_institutions_and_money	1.54	52.31	46.15
56	journal_of_the_american_taxation_association	5	5	90
57	mathematics_and_financial_economics	5.26	13.16	81.58
58	financial_management	5.26	78.95	15.79
59	american_law_and_economics_review	12.5	0	81.25
60	international_tax_and_public_finance	10.53	89.47	0
61	international_review_of_environmental_and_resource_economics	9.68	90.32	0
62	journal_of_business_finance_and_accounting	4.17	13.89	81.94
63	annals_of_finance	15.09	0	84.91
64	international_journal_of_accounting_information_systems	7.41	16.67	75.93
65	national_tax_journal	8	0	92
66	journal_of_corporate_real_estate	7.14	0	85.71

67	international_journal_of_theoretical_and_applied_finance	2	80	18
68	economics_letters	10.42	87.5	2.08
69	accounting_forum	1.69	22.03	76.27
70	international_journal_of_accounting	1.56	17.19	81.25
71	review_of_financial_economics	4.65	0	95.35
72	north_american_journal_of_economics_and_finance	4.55	0	95.45
73	journal_of_financial_counseling_and_planning	2.33	0	97.67
74	journal_of_financial_services_research	9.43	84.91	5.66
75	journal_of_asian_economics	4	96	0
76	quantitative_finance	2.9	0	97.1
78	journal_of_financial_research	5.36	94.64	0
79	accounting_and_finance	1.16	13.95	84.88
80	applied_mathematical_finance	14.29	0	85.71
81	pacific_basin_finance_journal	6.12	0	93.88
82	geneva_papers_on_risk_and_insurance_issues_and_practice	3.03	0	87.88
83	fiscal_studies	17.39	60.87	17.39
84	journal_of_futures_markets	4.76	0	90.48
85	journal_of_european_real_estate_research	9.8	0	86.27
86	international_review_of_financial_analysis	1.69	72.88	25.42
87	asian_economic_papers	15.38	30.77	50
88	annals_of_economics_and_finance	1.39	26.39	66.67
89	journal_of_public_economic_theory	4	84	12
90	international_journal_of_finance_and_economics	11.11	22.22	66.67
91	japan_and_the_world_economy	5.26	23.68	71.05
92	financial_review	5.41	78.38	16.22
93	journal_of_accounting_auditing_and_finance	3.12	34.38	62.5
94	review_of_quantitative_finance_and_accounting	2.5	97.5	0
95	quarterly_review_of_economics_and_finance	8.33	0	91.67
96	journal_of_portfolio_management	1.47	0	95.59
97	international_journal_of_health_care_finance_and_economics	26.09	4.35	69.57
98	world_economy	4.55	15.91	79.55
99	investment_analysts_journal	11.11	0	88.89

100	research_in_international_business_and_finance	2.33	41.86	55.81
101	public_budgeting_and_finance	11.76	0	88.24
102	journal_of_revenue_and_pricing_management	3.7	3.7	92.59
103	economie_internationale	4.44	40	53.33
104	journal_of_the_japanese_and_international_economies	17.86	75	3.57
105	geneva_risk_and_insurance_review	5	95	0
106	finance_research_letters	5.66	0	94.34
107	journal_of_education_finance	6.59	4.4	85.71
108	journal_of_international_financial_management_and_accounting	8	8	80
109	emerging_markets_finance_and_trade	2.63	39.47	57.89
110	international_review_of_law_and_economics	10.87	89.13	0
111	international_finance	3.45	10.34	86.21
112	global_finance_journal	3.03	0	96.97
113	journal_of_international_accounting_auditing_and_taxation	3.85	0	94.23
114	financial_history_review	6.67	0	86.67
115	applied_econometrics_and_international_development	16.67	4.17	79.17
116	risk_management	2.04	16.33	81.63
117	public_finance_review	4.55	0	95.45
118	wseas_transactions_on_business_and_economics	5	95	0
119	accounting_in_europe	1.56	6.25	89.06
120	international_journal_of_digital_accounting_research	4.26	2.13	93.62
122	journal_of_property_investment_and_finance	2.38	4.76	88.1
123	asian_review_of_accounting	13.51	0	81.08
124	studies_in_economics_and_finance	2.63	65.79	26.32
125	zbornik_radova_ekonomskog_fakultet_au_rijeci	6.45	48.39	41.94
126	journal_of_pension_economics_and_finance	4.69	20.31	67.19
127	journal_of_multinational_financial_management	2.27	61.36	36.36
128	review_of_derivatives_research	8.33	83.33	0
129	journal_of_financial_services_marketing	2.5	10	87.5
130	journal_of_economics_and_finance	4.35	13.04	82.61
131	prague_economic_papers	2.7	51.35	43.24
132	ejournal_of_tax_research	10	0	90

133	international_journal_of_sports_marketing_and_sponsorship	2.13	0	97.87
134	accounting_perspectives	2.38	33.33	52.38
135	accounting_research_journal	2.7	0	89.19
136	finanzarchiv	8.33	70.83	20.83
137	finance_a_uver	3.33	16.67	80
138	international_journal_of_sport_finance	3.23	9.68	87.1
139	china_journal_of_accounting_research	5.41	27.03	67.57
140	financial_markets_and_portfolio_management	5	0	95
142	asia_pacific_journal_of_financial_studies	5.88	0	92.16
143	review_of_pacific_basin_financial_markets_and_policies	2.08	97.92	0
145	financial_markets_institutions_and_instruments	50	0	50
146	research_in_accounting_regulation	3.45	0	96.55
147	asia_pacific_journal_of_accounting_and_economics	14.29	71.43	14.29
148	zeitschrift_für_die_gesamte_versicherungswissenschaft	27.78	66.67	5.56
149	universia_business_review	6.67	0	93.33
150	journal_of_behavioral_finance	2.94	94.12	2.94
151	international_journal_of_managerial_finance	2.44	0	90.24
152	journal_of_wealth_management	3.03	0	96.97
154	journal_of_internet_banking_and_commerce	8	0	92
155	investment_management_and_financial_innovations	5.41	0	94.59
156	journal_of_emerging_market_finance	4.35	0	95.65
157	banking_law_journal	4.17	0	95.83
158	international_journal_of_monetary_economics_and_finance	3.45	0	96.55
159	afro_asian_journal_of_finance_and_accounting	2.44	9.76	87.8
160	spanish_review_of_financial_economics	32	68	0
162	risk_management_and_insurance_review	10.53	73.68	10.53
163	comptabilite_controle_audit	16.67	0	83.33
164	revista_espanola_de_financiacion_y_contabilidad	3.51	12.28	82.46
165	indian_journal_of_finance	5.88	0	70.59
166	asia_pacific_financial_markets	2.94	70.59	26.47
167	review_of_development_finance	7.27	10.91	81.82
168	journal_of_public_budgeting_accounting_and_financial_management	1.37	1.37	91.78

169	review_of_accounting_and_finance	2.44	2.44	87.8
170	journal_of_derivatives	5.26	0	94.74
171	economia_politica	7.89	36.84	55.26
172	algorithmic_finance	10.53	42.11	47.37
173	asian_academy_of_management_journal_of_accounting_and_finance	16.67	0	83.33
175	african_finance_journal	7.14	0	90.48
176	decisions_in_economics_and_finance	2.7	37.84	59.46
177	journal_of_alternative_investments	15.15	0	84.85
178	journal_of_behavioral_and_experimental_finance	2.94	0	94.12
179	journal_of_banking_regulation	13.16	0	86.84
180	academy_of_accounting_and_financial_studies_journal	2.94	0	97.06
181	international_journal_of_business_and_society	6.25	28.12	65.62
182	journal_of_fixed_income	3.7	92.59	0
183	international_journal_of_disclosure_and_governance	53.33	0	46.67
184	international_journal_of_banking_accounting_and_finance	7.14	23.81	69.05
185	revue_d'etudes_comparatives_est_ouest	2.94	35.29	61.76
186	finance_and_development	2.63	15.79	52.63
187	international_journal_of_accounting_auditing_and_performance_evaluation	6.98	18.6	74.42
188	international_journal_of_revenue_management	2.08	14.58	83.33
189	hacienda_publica_espanola	9.09	13.64	77.27
190	international_research_journal_of_finance_and_economics	16	0	84
192	journal_of_business_valuation_and_economic_loss_analysis	3.33	3.33	93.33
195	international_journal_of_business	2.33	2.33	95.35
197	economia_chilena	100	0	0
198	macroeconomics_and_finance_in_emerging_market_economies	11.11	0	88.89
199	risk_governance_and_control_financial_markets_and_institutions	7.41	0	92.59
202	jassa	20	0	80
203	banking_and_finance_review	7.69	0	92.31
205	journal_of_private_equity	4.17	0	95.83
206	australasian_accounting_business_and_finance_journal	4.44	95.56	0
207	ata_journal_of_legal_tax_research	50	50	0
208	real_estate_taxation	4.55	0	95.45

210	journal_of_taxation	3.45	0	96.55
212	international_insolvency_review	4.76	0	95.24

Table 51 Journals Tiers

Affiliation Tiers

Affiliation	Total	Tier1	Tier2	Tier3
aalto_university_aalto_yliopisto	10	0	20	80
aarhus_university_aarhus_universitet	8	0	37.5	62.5
aberdeen_asset_management_plc	1	0	0	100
abo_akademi_university_abo_akademi	2	0	0	100
abu_dhabi_investment_authority	1	0	0	100
abu_dhabi_university	1	0	0	100
academia_sinica	3	0	100	0
academy_of_magyar_tudomanyos	1	0	100	0
academy_of_sciences_of_the_czech_republic	1	0	0	100
acadian_asset_management	1	0	0	100
acca_association_of_chartered_certified_accountants	1	0	0	100
accademia_nazionale_dei_lincei	1	100	0	0
adam_mickiewicz_university_in_poznan_uniwersytet_im_adam_mickiewicza_w_poznaniu	1	0	0	100
adb_institute	1	0	0	100
adelphi_university	2	0	0	100
adolfo_ibáñez_university_universidad_adolfo_ibanez	6	0	50	50
advanced_analytics_customer_intelligence_&_profit_optimization_ibm	1	0	0	100
adviser_on_regulatory_policy_and_cooperation_financial_stability_board	1	0	0	100
aeca_asociación_española_de_contabilidad_y_administración_de_empresas	1	0	0	0
africagrowth_institute	2	0	0	50
african_department	1	0	0	100
african_development_bank	1	0	0	100
aichi_university	1	0	100	0
airef_independent_authority_for_fiscal_responsibility_spanish	1	100	0	0
aix_marseille_university_aix_marseille_universite	5	0	40	60
alliance_university	1	0	0	100
alliant_international_university	1	0	0	100
allianz_and_chair_of_president_s_global_development_council	1	0	0	100
allianz_real_estate	1	0	0	100
alternative_investment_analytics_llc	1	0	0	100
alvarez_and_marsal_capital_partners	1	0	0	100
american_accounting_association	2	0	0	0
american_airlines	1	0	0	100
american_express_tax_and_business_services	1	0	0	100
american_law_and_economics_association	1	0	0	0
american_university	10	10	30	60
american_university_in_cairo	1	0	0	100
american_university_of_beirut	7	0	14.29	85.71
american_university_of_sharjah	7	14.29	0	85.71
amherst_college	2	0	50	50

amphi_capital_markets_llc	1	0	0	100
analytic_investors	1	0	0	100
annual_reviews	7	0	0	0
aon_singapore	1	0	0	100
aoyama_gakuin_university	2	0	0	100
appalachian_state_university	1	0	0	100
aqr_capital_management	2	0	0	100
arent_fox	1	0	0	100
aristotle_university_of_thessaloniki	1	0	0	100
arizona_state_university	24	4.17	29.17	66.67
arkansas_state_university	1	0	0	100
arnold_&_porter	1	0	0	100
array_development	1	0	0	100
asian_development_bank	2	0	100	0
asian_development_bank_institute	1	0	100	0
asian_economic_papers	1	0	0	0
asian_growth_research_institute	1	0	100	0
asian_institute_of_technology	2	0	0	100
associazione_nazionale_fra_le_imprese_assicuratrici_ania	1	0	0	100
aston_university	6	0	33.33	66.67
athens_university_of_economics_&_business	7	14.29	28.57	57.14
attorney_certified_anti_money_laundering_specialist	1	0	0	100
auburn_university	6	0	33.33	66.67
auckland_university_of_technology_te_wananga_aronui_o_tamaki_makau_rau	7	0	14.29	85.71
audencia_business_school	2	0	50	50
augusta_state_university	2	0	0	100
austin_state_university	1	0	0	100
australian_catholic_university	1	0	100	0
australian_national_university	18	0	50	50
australian_prudential_regulation_authority	1	0	0	100
automatic_data_processing	1	0	0	100
autonomous_university_of_barcelona_universitat_autonoma_de_barcelona	6	0	83.33	16.67
autonomous_university_of_madrid_universidad_autónoma_de_madrid	7	14.29	14.29	71.43
avvo_com	1	0	0	100
b_com_hons	1	0	0	100
babson_college	7	0	28.57	71.43
baker_&_mckenzie	2	0	0	100
banca_monte_dei_paschi_di_siena	1	0	0	100
banco_central_de_chile	2	100	0	0
bangor_university	7	14.29	71.43	14.29
bank_for_international_settlements_hong_kong	1	0	0	100
bank_for_international_settlements_usa	1	0	0	100
bank_of_america	1	0	0	100
bank_of_america_uk	3	0	66.67	33.33
bank_of_canada	1	0	0	100
bank_of_england	4	25	25	50
bank_of_finland_suomen_pankki	4	0	25	75
bank_of_finland_suomen_pankki	1	0	0	100
bank_of_france_banque_de_france	2	0	50	50

bank_of_international_settlements	2	0	0	100
bank_of_italy_banca_d_italia	1	0	0	100
bank_of_spain_banco_de_españa	2	50	0	50
bank_sinopac	1	0	100	0
bar_ilan_university	2	0	0	100
barclays	1	0	0	100
barclays_south_africa	2	0	0	100
barclays_uk	3	0	0	100
bass_family_office	3	0	0	100
bauhaus_university_bauhaus_universitat	1	0	0	100
baylor_university	9	0	55.56	44.44
beijing_normal_university	1	0	0	100
bellarmine_university	1	0	0	100
belpay	1	0	0	100
ben_gurion_university_of_the_negev	4	0	50	50
bentley_university	9	0	33.33	66.67
berry_college	2	0	0	100
bi_norwegian_business_school_handelshøyskolen_bi	4	0	0	100
bialystok_university_of_technology_politechnika_bialostocka	1	0	0	100
bielefeld_university_universität_bielefeld	4	25	75	0
bilkent_university	4	0	25	75
binghamton_university	2	0	50	50
birzeit_university	1	0	0	100
bis_shrapnel	1	0	0	100
black_forest_llc	1	0	0	100
blackrock	4	0	0	100
blaise_pascal_university_universite_blaise_pascal	1	0	0	100
bloomberg_new_york	1	0	0	100
bloomsburg_university_of_pennsylvania	2	0	50	50
bma_paris	1	0	0	100
bnp_paribas_uk	1	0	100	0
board_of_governors_of_the_federal_reserve_system	1	0	100	0
bocconi_university_università_commerciale_luigi_bocconi	36	2.78	47.22	50
bogazici_university	2	0	50	50
bond_university	7	0	14.29	85.71
boston_college	33	9.09	51.52	39.39
boston_institute_for_developing_economics	1	0	100	0
boston_university	23	4.35	65.22	26.09
bourne_mouth_university	2	100	0	0
bowling_green_state_university	1	0	0	100
bracewell_and_giuliani_llp_hartford	1	0	0	100
brandeis_university	7	0	57.14	42.86
brandon_university	1	0	0	100
bridgeway_capital_management	1	0	0	100
brigham_young_university	13	7.69	7.69	84.62
brock_university	4	0	0	100
brookings_institution	1	0	0	100
brown_university	11	18.18	54.55	27.27
bruegel	1	0	100	0

brunel_university_london	12	8.33	33.33	58.33
bryant_university	3	0	33.33	66.67
bse_limited	1	0	100	0
bucharest_university_of_economic_studies_academia_de_studii_economice_din_bucuresti	2	0	0	100
bucknell_university	3	0	0	100
bulgarian_national_bank	1	0	0	100
burkert_valuation_advisors_llc	1	0	0	100
business_school_lausanne	1	0	0	100
butler_university	1	0	0	100
cag_university	1	0	0	100
california_institute_of_technology	13	15.38	53.85	30.77
california_state_university	29	13.79	6.9	79.31
cambridge_advisors_to_family_enterprise	1	0	0	100
campion_asset_management	1	0	0	100
canada_post_corporation	1	0	0	100
canadian_public_accountability_board_conseil_canadien_sur_la_reddition_de_c_omptes	1	0	0	100
canadian_research_institute	1	0	0	100
capella_university	2	0	0	100
carb_luria_cook_&_kufeld	1	0	0	100
cardiff_university	10	0	10	90
carleton_university	7	0	14.29	85.71
carnegie_mellon_university	28	3.57	42.86	53.57
case_center_for_social_and_economc_research	1	0	0	100
case_western_reserve_university	4	25	25	50
castle_harlan_inc	1	0	0	100
catholic_university_of_america	1	0	0	100
catholic_university_of_chile_santiago	1	0	0	100
catholic_university_of_milan_università_cattolica_del_sacro_cuore	2	0	50	50
catholic_university_of_ouvain_université_catholique_de_louvain	1	0	100	0
catholic_university_of_the_sacred_heart_università_cattolica	5	40	40	20
caucasien_et_centre_européen	1	0	0	100
cbre_ltd	1	0	0	100
cea_saclay	1	0	100	0
ceibs	1	0	100	0
cemfi	3	0	66.67	33.33
centennial_college_pokfulam	1	0	0	100
center_for_applied_macroeconomic_analysis_canberra_act	1	0	100	0
center_for_financial_services_innovation	1	0	0	100
center_for_pbbef_research	1	0	100	0
center_for_people_and_buildings	1	0	0	100
center_for_retirement_research_boston_college	1	0	0	100
central_bank_of_ireland	1	0	0	100
central_bank_of_uruguay_	1	0	0	100
central_connecticut_state_university	2	50	0	50
central_european_university	1	0	100	0
central_european_university_közép_európai_egyetem	2	50	0	50
central_michigan_university	1	0	0	100
central_university_of_finance_and_economics	1	0	0	100

central_university_of_tamil_nadu	1	0	0	100
centralesupélec_paris	1	0	0	100
centralia_college	1	0	0	100
centre_for_development_studies_thiruvananthapuram	1	0	0	100
centre_for_european_economic_research_zew_mannheim	2	0	100	0
centre_for_european_policy_studies	1	0	100	0
centre_for_financial_management_research	1	0	0	100
centre_for_studies_in_social_sciences	1	0	0	100
centre_national_de_la_recherche_scientifique_clermont_ferrand	7	0	14.29	85.71
centre_of_economic_policy_research	2	0	100	0
cepii_and_inra	1	0	0	100
cerge_ei_prague	1	0	0	100
cergy_pontoise_university_université_de_cergy_pontoise	1	0	0	100
certified_public_accountant	1	0	0	100
cfa_institute	5	0	0	40
chalmers_university_of_technology_chalmers_tekniska_högskola	1	0	100	0
chambers_of_lord_grabiner_qc_london	1	0	0	100
champagne_school_of_management	3	0	0	100
chapman_and_cutler	2	50	0	50
chapman_university	6	0	66.67	33.33
charles_III_university_of_madrid_universidad_carlos_iii_de_madrid	10	10	40	50
charles_schwab_&_co	1	0	100	0
charles_sturt_university	1	0	100	0
charles_university_prague_univerzita_karlova	15	6.67	40	53.33
charter_trust_company	1	0	0	100
chartered_alternative_investment_analysts_association	1	0	0	100
chartered_professional_accountants_of_canada_comptable_professionnel_agré é	1	0	0	100
chartis_insurance	1	0	0	100
chatham_university	1	0	100	0
cheung_kong_graduate_school_of_business	7	0	28.57	71.43
chicago_kent_college_of_law_illinois_institute_of_technology	1	0	0	100
chief_scientist_scandinavian_airlines_system	1	0	0	100
china_europe_international_business_school	15	0	13.33	86.67
china_university_of_petroleum	1	0	0	100
chinese_academy_of_social_sciences	2	0	0	100
chinese_university_of_hong_kong	28	7.14	25	67.86
chintan	1	0	0	100
chu_hai_college_of_higher_education	1	0	0	100
chulalongkorn_university	1	0	100	0
chung_ang_university	2	0	0	100
chungbuk_national_university	1	0	0	100
chuo_university	3	0	66.67	33.33
cibc_canadian_imperial_bank_of_commerce	1	0	0	100
cide_centro_de_investigación_y_docencia_económicas	1	0	0	100
circle_lund_university_lunds_universitet	1	0	0	100
citigroup	1	0	0	100
city_college	1	100	0	0
city_university_of_hong_kong	26	7.69	26.92	65.38

city_university_of_london	36	5.56	19.44	72.22
claremont_graduate_university	5	20	40	40
clark_university	1	0	0	100
clemson_university	9	0	55.56	44.44
cleveland_state_university	3	0	33.33	66.67
clifton_gunderson_llp	2	0	0	100
cme_group	1	0	0	100
colby_college	1	0	100	0
colgate_university_hamilton	1	100	0	0
college_of_charleston	1	0	0	100
college_of_the_holy_cross	1	0	0	100
college_of_william_and_mary	3	0	0	66.67
cologne_university_universität_zu_köln	2	0	0	100
colorado_state_university	13	0	15.38	84.62
columbia_university	85	3.53	49.41	47.06
commerzbank_london	1	0	0	100
comlutense_university_of_madrid_universidad_comlutense_de_madrid	6	0	16.67	83.33
concordia_university_université_concordia	11	0	27.27	72.73
congressional_research_service_library_of_congress	1	0	0	100
conn_valuation_services_ltd	1	0	0	100
connecticut_state_university	1	0	0	100
consult_hyperion	1	0	0	100
consultant_surveyor_specialising_in_compulsory_purchase_and_compensation	1	0	100	0
consultant_usa	1	0	0	100
consultant_with_real_estate_forecasting_ltd_london	1	0	0	100
converium_ltd	1	0	0	100
copenhagen_business_school_handelshøjskolen_i_københavn	30	0	10	90
córas_iompair_eireann	1	0	0	100
core	2	0	100	0
core_consult	1	100	0	0
core_louvain	1	0	100	0
corelogic	1	0	0	100
coreserve_llc	1	0	0	100
cornell_university	49	10.2	34.69	55.1
corporate_valuation_services	1	0	0	100
council_on_foreign_relations	1	100	0	0
counsel_debevoise_&_plimpton_llp	1	0	0	100
counsel_wilmer_cutler_pickering_hale_and_dorr_llp	1	0	0	100
coutts_institute	1	0	0	100
covenant_university	1	0	0	100
coventry_university	4	0	0	100
cpa	1	0	0	100
cpa_deloitte_tax_llp	1	0	0	100
cpa_j_d_kpmg_llp	1	0	0	100
cpa_j_d_wtas_llc_mclean	1	0	0	100
cpa_ll_m_pricewaterhousecoopers_llp	1	0	0	100
cpa_ll_m_richard_c_breedon_&_co	1	0	0	100
cpa_pricewaterhousecoopers_llp	1	0	0	100
cranfield_university	4	0	0	100

crédit_agricole_asset_management_paris	1	0	0	100
croatian_academy_of_sciences_and_arts_zagreb_hrvatska_akademija_znanosti_i_umjetnosti	1	0	100	0
csc_financial_services_camberley	1	0	0	100
curtin_university	10	10	0	90
cyprus_university_of_technology	1	0	0	100
czech_academy_of_sciences_akademie	1	0	0	100
czech_national_bank	7	0	14.29	85.71
d_f_mccarthy_llc	1	0	0	100
dartmouth_college	20	15	35	50
dav_college	1	0	0	100
de_novo_ventures	1	0	0	100
deakin_university	12	0	8.33	91.67
decision_research	4	0	75	25
decision_support_specialist_icf_international	1	0	0	100
del_banco_central_central_bank_of_argentina	1	0	0	100
delaware_investments	1	0	0	100
delft_university_of_technology_technische_universiteit_delft	1	0	0	100
delhi_university	2	0	0	100
deloitte	1	0	0	100
deloitte_&_touche_llp	1	0	0	100
deloitte_real_estate	1	0	0	100
delta	1	0	0	100
democratic_union_of_catalonia_unió_democràtica_de_catalunya	1	0	0	100
depaul_university	8	0	25	75
development_dimensions_international	1	0	0	100
dhe_consulting_llc	1	0	0	100
dickstein_shapiro_llp	1	0	0	100
direct_line_group	1	0	0	100
director_facom_consulting	1	100	0	0
division_of_florida_colleges	1	0	0	100
dohmeyer_valuation_corp	1	0	0	100
dongbei_university_of_finance_and_economics	1	0	0	100
doshisha_university	1	0	100	0
drake_university	1	0	0	100
draneas_&_huglin_p_c	1	0	0	100
dreman_value_management	1	0	100	0
drexel_university	13	15.38	53.85	30.77
dublin_city_university	4	0	50	50
duke_university	42	7.14	57.14	33.33
duksung_women_s_university	1	0	0	100
duquesne_university	1	0	0	100
durham_university	4	0	0	100
e_o_thorp_associates	1	0	0	100
east_carolina_university	4	0	0	100
eastern_michigan_university	1	0	0	100
ebs_university_of_business_and_law_universität_für_wirtschaft_und_recht	1	0	0	100
ecares_european_center_for_advanced_research_in_economics_and_statistics	1	0	100	0
ecole_centrale_de_paris	2	0	0	100

ecole_des_mines_de_saint_etienne	1	0	100	0
école_hôtelière_de_lausanne	1	0	0	100
ecole_nationale_superieure_de_lyon	2	0	100	0
ecole_polytechnique	5	20	80	0
economic_and_social_research_institute	2	0	50	50
economic_research_department	1	0	100	0
economic_research_institute_for_asean_and_east_asia_indonesia	2	50	50	0
economics_o_hara_graduate_institute	1	0	0	100
edf_lab_finance_for_energy_market_research_centre	1	0	100	0
edhec_london	2	0	0	100
edhec_singapore	2	0	50	50
edinburgh_napier_university	3	0	33.33	66.67
edith_cowan_university	1	0	0	100
eindhoven_university_of_technology_technische_universiteit_eindhoven	1	100	0	0
electrolux_home_products	1	0	0	100
elizabeth_city_state_university	1	0	0	100
elon_university	2	0	0	100
ely_research_institute	1	0	0	100
em_lyon	1	0	0	100
embry_riddle_aeronautical_university	1	0	0	100
emit_peripherals_pvt_ltd	1	0	0	100
emlyon_business_school	1	0	0	100
emory_university	15	13.33	40	46.67
environment_protection_authority	1	0	0	100
erasmus_university_rotterdam_erasmus_niversiteit_rotterdam	17	0	29.41	70.59
ernst_and_young_llp	4	0	0	100
ers_group	1	0	0	100
esade	4	0	25	75
esc_rennes_school_of_business	4	25	25	50
escp_europe_berlin	1	0	0	100
escp_europe_london	2	0	0	100
escp_europe_paris	5	0	0	100
esmt_berlin	4	0	75	25
essec_paris	17	0	17.65	76.47
etf_consultants	1	0	0	100
eth_zurich_eidgenössische_technische_hochschule_zürich	12	16.67	25	58.33
eton_advisors_lp	1	0	0	100
europa_university_viadrina_europa_universität_viadrina	1	0	0	100
europe_asia_business_school	1	100	0	0
european_business_school	1	0	0	100
european_central_bank	1	0	0	100
european_central_bank_banque_centrale_européenne	7	0	71.43	28.57
european_sponsorship_association	1	0	0	100
european_university_institute	3	0	0	33.33
european_university_viadrina_frankfurt_europa_universität_viadrina_frankfurt	1	0	0	100
ewha_womans_university	1	0	0	100
ex_chairman_economic_advisory_council_to_the_prime_minister_delhi	1	0	0	100
executive_director_hospitality_and_travel_global_practice_sas_institute_inc	1	0	0	100
faculty_of_electrical_engineering_and_computing_fakultet_elektrotehnike_i_ra?	1	0	100	0

unarstva				
fairfield_university	1	0	100	0
family_enterprise_continuity_alliance	1	0	0	100
family_firm_institute	1	0	0	100
family_office_exchange	1	0	0	100
federal_housing_finance_agency	1	0	100	0
federal_reserve_bank	4	0	100	0
federal_reserve_bank_of_atlanta	8	0	87.5	12.5
federal_reserve_bank_of_chicago	8	0	62.5	37.5
federal_reserve_bank_of_cleveland	5	20	80	0
federal_reserve_bank_of_dallas	1	0	0	100
federal_reserve_bank_of_minneapolis	2	0	100	0
federal_reserve_bank_of_new_york	11	0	100	0
federal_reserve_bank_of_philadelphia	5	0	80	20
federal_reserve_bank_of_richmond	4	25	75	0
federal_reserve_bank_of_san_francisco	2	50	0	50
federal_reserve_bank_of_st_louis	6	0	66.67	33.33
federal_reserve_board	5	0	60	40
federal_reserve_system_washington_district_of_columbia	1	0	100	0
federal_university_of_paraiba_universidade_federal_da_paraíba	1	0	0	100
federal_university_of_rio_de_janeiro_universidade_federal_do_rio_de_janeiro	3	0	33.33	66.67
federated_investors_inc	1	0	100	0
federation_university_australia	1	0	0	100
ferdi	1	0	0	100
fidelity_investments	1	0	0	100
finance_and_development	1	0	100	0
financial_forensics	2	0	0	100
financial_markets_center	1	0	0	100
financial_resource_systems_group	1	0	100	0
financial_secretary_s_office	1	0	100	0
financial_technologies_&_the_fields_institute	1	0	0	100
financial_transaction_house	1	0	100	0
firststrand_group	1	0	0	100
fischer_francis_trees_&_watts	1	0	0	100
florida_atlantic_university	13	7.69	0	84.62
florida_international_university	15	6.67	13.33	80
florida_state_university	22	9.09	27.27	63.64
fondazione_collegio	2	0	100	0
fordham_university	17	0	41.18	58.82
fore_school_of_management	1	0	0	100
founding_editor_emeritus	1	100	0	0
frankfurt_school_of_finance_and_management	1	0	0	100
free_university_of_berlin_freie_universität_berlin	4	25	25	50
free_university_of_brussels_université_libre_de_bruxelles	2	0	0	100
freiberg_university_of_mining_and_technology_technische_universität_bergakademie_freiberg	1	0	0	100
french_national_center_for_scientific_research_centre_national_de_la_recherche_scientifique	1	0	100	0
freshfields_bruckhaus_deringer	1	0	0	100
fribourg_university_université_de_fribourg	1	0	0	100

friedrich_alexander_university_of_erlangen_friedrich_alexander_universität_erlangen_nürnberg	3	0	66.67	33.33
friedrich_schiller_university_of_jena_friedrich_schiller_universität_jena	1	0	0	100
frostburg_state_university	1	0	0	100
fu_jen_catholic_university	1	0	100	0
fucam_mons	1	0	100	0
fudan_university	10	0	50	50
fuller_and_thaler_asset_management	1	0	0	100
geneva_association	1	0	0	100
george_mason_university	14	0	42.86	57.14
george_washington_university	15	0	6.67	93.33
georgetown_university	18	0	33.33	66.67
georgia_college_and_state_university	3	33.33	0	66.67
georgia_gwinnett_college	1	0	0	100
georgia_institute_of_technology	8	0	12.5	87.5
georgia_southern_university	3	0	0	100
georgia_state_university	28	10.71	25	64.29
georgia_tech	2	0	100	0
german_federal_bank_deutsche_bundesbank_frankfurt	1	0	0	100
german_institute_for_economic_research_deutsches_institut_für_wirtschaftsforschung	2	0	50	50
german_insurance_association	1	0	0	100
german_sport_university_cologne_deutsche_sporthochschule_köln	1	0	0	100
german_university_of_administrative_sciences_speyer_deutsch_hochschule_für_verwaltungswissenschaften	1	0	0	100
gersick_lansberg_&_associates	1	0	0	100
getulio_vargas_foundation_fundação_getulio_vargas	3	0	100	0
glasgow_caledonian_university	4	0	0	100
glenmede_trust_company_n_a	1	0	0	100
goldman_sachs_asset_management	1	0	0	100
gonzaga_university	2	50	0	50
gordon_institute_of_business_science	1	0	0	100
goucher_college	1	0	0	100
governmental_accounting_standards_board	1	0	0	100
gowling_lafleur_henderson_llp	1	0	0	100
graduate_institute_geneva_institut_de_hautes_études_internationales_et_du_développement	4	0	25	75
grambling_state_university	1	0	0	100
grand_valley_state_university	1	0	0	100
grassi_&_co	1	0	0	100
graymatter_strategies_llc	1	0	0	100
green_state_university	1	100	0	0
greenwich_global_consulting	1	0	0	100
grenoble_school_of_management_grenoble_ecole_de_management	4	0	50	50
greqam	2	0	50	50
griffith_university	12	0	41.67	58.33
groupe_esc_pau	1	0	100	0
guggenheim_partners_and_lawrence_berkeley_national_laboratory	1	0	0	100
guglielmo_marconi_university_università_degli_studi_guglielmo_marconi	1	0	0	100
habib_bank_ag	1	0	0	100

hacettepe_university	1	0	0	100
hamline_university	1	0	0	100
hang_seng_management_college	2	0	50	50
hangzhou_university	1	0	0	100
hanken_school_of_economics_svenska_handelshögskolan	3	0	33.33	66.67
hanyang_university	1	0	100	0
harvard_university	72	4.17	45.83	48.61
hasselt_university_universiteit_hasselt	5	0	20	80
hawaii_pacific_university	1	0	0	100
he_federal_home_loan_mortgage_corporation	1	0	0	100
head_of_retirement_income_research_challenger_limited	1	100	0	0
head_of_revenue_management_tools_lufthansa_german_airlines	1	0	0	100
hebrew_university_of_jerusalem	15	0	53.33	46.67
hec_montréal_ecole_des_hautes_études_commerciales_de_montréal	17	11.76	23.53	64.71
hec_paris_école_des_hautes_etudes_commerciales_de_paris	34	5.88	38.24	52.94
heidelberg_university_ruprecht_karls_universität_heidelberg	4	25	50	25
heinrich_heine_university_düsseldorf_heinrich_heine_universität_düsseldorf	2	0	50	50
helsinki_university_of_technology_teknillinen_korkeakoulu	1	0	0	100
heriot_watt_university	7	14.29	14.29	71.43
highland_capital_partners	1	0	0	100
highvista_strategies	1	0	100	0
hinterhuber_&_partners	1	0	100	0
hitotsubashi_university	10	10	60	30
hofstra_university	4	0	50	50
hokkaido_university	1	0	100	0
hong_kong_baptist_university	4	0	0	75
hong_kong_polytechnic_university	6	16.67	0	83.33
hong_kong_shue_yuan_university	1	0	0	100
hong_kong_university_of_science_and_technology	39	2.56	33.33	64.1
hull_university_business_school	1	0	0	100
hult_international_business_school	1	0	100	0
human_enterprise_research_group	1	0	0	100
humboldt_university_berlin_humboldt_universität_zu_berlin	10	10	30	60
hyderabad_university	1	0	0	100
i_shou_university	1	0	0	100
iae_lyon	3	0	0	100
iasb	1	0	0	100
iasb__london	1	0	0	100
icaew	1	0	0	100
icas_institute_of_chartered_accountants_of_scotland	1	0	0	100
icesi	2	0	0	100
idaho_state_university	2	0	0	100
idc_herzliya_interdisciplinary_center_herzliya	1	0	100	0
ie_business_school	11	0	9.09	90.91
ieseg	1	0	100	0
ifac	1	0	0	100
ifo_institute_for_economic_research	2	0	100	0
ifs_school_of_finance	1	0	0	100
iilm_graduate_school_of_management	1	0	100	0

illinois_institute_of_technology	3	0	66.67	33.33
illinois_state_university	9	0	33.33	66.67
imperial_college	24	4.17	54.17	41.67
imsa_washington	1	0	0	100
incae_business_school	1	0	0	100
ince	1	0	0	100
inceif_international_centre_for_education_in_islamic_finance	2	0	0	100
indian_institute_of_finance	1	0	0	100
indian_institute_of_management	3	0	33.33	66.67
indian_school_of_business	4	0	0	100
indiana_university	30	3.33	53.33	43.33
indira_gandhi_institute_for_development_research	4	75	0	25
ing_investment_management	1	0	0	100
inha_university	1	0	0	100
inje_university	1	0	0	100
innealta_capital	1	0	0	100
innovate_financial_services	1	0	0	100
inrev	1	0	0	100
inria	1	0	100	0
insead_france	21	9.52	28.57	61.9
insead_singapore	4	0	0	100
insec_paris	1	0	0	100
insper_institute_of_education_and_research	1	0	0	100
inst_of_physics_academia_sinica_taipei_city_taiwan_roc	1	0	100	0
institutue_of_rural_and_agricultural_development_of_polish_academy	1	0	100	0
institut_universitaire_de_france	1	100	0	0
institute_for_management_development_imd	7	0	14.29	85.71
institute_for_economic_analysis	1	0	100	0
institute_for_financial_management_and_research	2	50	0	50
institute_for_fiscal_studies	3	0	33.33	33.33
institute_for_global_asset_and_risk_management	2	0	0	100
institute_for_international_economics	1	0	0	100
institute_for_private_investors	1	0	0	100
institute_for_research_on_intercultural_cooperation	1	0	0	100
institute_for_world_economics_of_the_hungarian_academy_of_sciences_magyar_tudományos_akadémia	1	0	0	100
institute_of_economics_zagreb_zagreba?ka_škola_ekonomije_i_managementa	1	0	0	100
institute_of_financial_management_and_research_chennai	1	0	0	100
institute_of_financial_science_and_insurances	1	0	100	0
institute_of_information_theory_and_automotation	2	0	100	0
insurance_information_institute	1	0	100	0
interdisciplinary_center_herzliya	1	0	100	0
international_centre_for_the_study_of_east_asian_development	1	0	100	0
international_computer_science_institute	1	0	0	100
international_development_cooperation_agency_styrelsen_för_internationellt_u_tvecklingssamarbete	1	0	100	0
international_engineering_and_technology_institute	1	0	0	100
international_finance_corporation	2	0	0	100
international_food_policy_research_institute	1	0	0	100
international_institute_of_business_technologies	1	100	0	0

international_journal_of_finance	1	0	0	100
international_management_institute	1	0	0	100
international_monetary_fund	41	0	29.27	70.73
international_university_college	1	0	0	100
international_university_of_monaco	1	0	0	100
investments_consultant_distad_&_associates	1	0	0	100
inwent_germany	1	0	0	100
iowa_state_university	6	0	33.33	66.67
ipag_business_school	5	0	20	80
iredu_dijon	1	0	0	100
iris_business_services	1	0	0	100
iscte_instituto_universitário_de_lisboa	1	0	0	100
iseg_lisbon	1	0	0	100
israel_institute_of_technology	1	0	0	100
istanbul_medeniyet_university	2	0	0	100
istanbul_technical_university	1	0	100	0
ithaca_college	1	0	0	100
iulm_university_libera_università_di_lingue_e_comunicazione_iulm	2	0	0	100
j_d_adler_and_colvin	1	0	0	100
j_d_bryan_cave_llp	1	0	0	100
j_d_cpa_fried_frank_harris_shriver_&jacobson	1	0	0	100
j_d_feingold_&_alpert	1	0	0	100
j_d_fenwick_&_west_llp_mountain_view_california	1	0	0	100
j_d_katten_muchin_rosenman_llp_chicago	1	0	0	100
j_d_lewis_rice_&_fingersh_lc	1	0	0	100
j_d_philadelphia	1	0	0	100
j_d_ria_new_york	1	0	0	100
j_d_roberts_&_holland_llp	1	0	0	100
j_d_roberts_&_holland_llp_new_york	1	0	0	100
j_d_university_of_georgia_law_school	1	0	0	100
jacksonville_state_university	1	0	0	100
jacksonville_university	1	0	100	0
jacobs_levy_equity_management_inc.	1	0	0	100
james_madison_university	3	0	0	100
jaume_i_university_universidad_jaume_i	3	0	0	100
jefferson_school_of_population_health	1	0	100	0
jeffries_technology_solutions	1	100	0	0
jiangxi_university_of_finance_and_economics	1	0	0	100
johannes_gutenberg_university_mainz_johannes_gutenberg_universität_mainz	3	0	0	100
johannes_kepler_universitat_linz_johannes_kepler_universität_linz	1	0	0	100
john_cabot_university	1	0	100	0
john_jay_college_of_criminal_justice	1	0	0	100
johns_hopkins_university	16	12.5	43.75	43.75
jönköping_international_business_school	4	0	25	75
jp_morgan_chase	1	0	0	100
juraj_dobrila_university_of_pula_sveu?ilište_jurja_dobrile_u_puli	1	0	100	0
justus_liebig_university_giessen_justus_liebig_universität_gießen	4	0	50	50
kaist	2	0	0	100
kansas_state_university	5	0	40	60

karlsruhe_institute_of_technology_universität_karlsruhe	2	0	50	50
kaspar_associates	2	0	0	100
katholieke_university_of_leuven_katholieke_universiteit_leuven	30	3.33	40	56.67
kaunas_university_of_technology_kauno_tehnologijos_universitetas	3	0	0	100
kawaller_&_co_llc	1	0	0	100
kawaller_and_co_new_york	1	0	0	100
kedge_business_school	6	16.67	33.33	50
kedge_capital_fund_management_ltd	1	0	0	100
keele_university_keele_staffordshire	1	0	100	0
keevican_weiss_bauerle_&_hirsch_llc	1	0	0	100
keio_university	10	10	30	60
kelley_school_of_business	1	0	0	100
kennesaw_state_university	18	0	11.11	88.89
kent_state_university	5	20	20	60
khalifa_university	1	0	0	100
khatam_institute_of_higher_education	1	0	0	100
king_fahd_university_of_petroleum_and_minerals	1	0	0	100
king_s_college	14	0	14.29	85.71
kingston_university	2	0	0	100
kleinberg_kaplan__wolff_&_cohen__pc	1	0	0	100
kobe_university	4	0	50	50
konkuk_university	1	0	0	100
kookmin_university	2	0	0	100
kore_university_of_enna_università_kore_di_enna	1	0	100	0
korea_advanced_institute_of_science_and_technology	5	0	20	80
korea_institute_for_international_economic_policy	3	33.33	33.33	33.33
korea_university	5	0	0	100
kozminski_university	1	0	0	100
krakow_university_of_economics_uniwersytet_ekonomiczny_w_krakowie	1	0	0	100
kth_stockholm	1	0	100	0
kti_property_information_ltd	1	0	0	100
kuehne_logistics_university_wissenschaftliche_hochschule_für_logistik_und_unt ernehmensführung	4	0	25	75
kwansei_gakuin_university	2	0	0	100
kyoto_university	7	0	42.86	57.14
kyung_hee_university	2	0	50	50
la_trobe_university	11	0	18.18	81.82
lafayette_college	2	0	0	100
lamar_university	1	0	0	100
lancaster_university	14	0	21.43	78.57
lappeenranta_university_of_technology	1	0	0	100
lasalle_investment_management	1	0	0	100
laval_university_université_laval	19	5.26	26.32	68.42
law_offices_of_joel_e_miller	1	0	0	100
lawrence_berkeley_national_laboratory	1	0	100	0
lebanese_american_university	1	0	0	100
leeds_metropolitan_university	1	0	0	100
legacy_advisors	1	0	0	100
lehigh_university	13	0	23.08	76.92

leiden_university_universiteit_leiden	3	0	33.33	66.67
lincoln_memorial_university	1	0	0	100
lincoln_university_te_whare_wanaka_o_aoraki	2	0	0	100
lingnan_university	1	0	100	0
linköping_university_linköpings_universitet	1	0	0	100
lithuanian_institute_of_agrarian_economics	1	0	0	100
ljh_global_investments	1	0	0	100
ll_b_mcdermott_will_&_emery_llp	1	0	0	100
ll_b_pepper_hamilton_llp_	1	0	0	100
ll_m_jones_walker_waechter_poitevent_carrère_&_denègre	1	0	0	100
ll_m_kilpatrick_townsend_&_stockton_llp	1	0	0	100
ll_m_kostelanetz_&_fink_llp	1	0	0	100
ll_m_latham_&_watkins_llp_	1	0	0	100
ll_m_morgan_lewis_&_bockius_llp	1	0	0	100
ll_m_new_york	1	100	0	0
ll_m_orrick_herrington_&_sutcliffe_llp	1	0	0	100
loan_peak_valuation_group	1	0	0	100
loeb_and_loeb_llp_los	1	0	0	100
london_business_school	33	6.06	42.42	51.52
london_metropolitan_university	1	0	0	100
london_school_of_economics	66	12.12	39.39	46.97
loughborough_university	8	0	0	100
louisiana_state_university	13	0	53.85	46.15
louisiana_tech_university	2	0	0	100
loyola_marymount_university	4	0	50	50
loyola_university_chicago	3	33.33	33.33	33.33
loyola_university_new_orleans	1	0	0	100
lucerne_university_of_applied_science_and_arts_hochschule_luzern	1	0	100	0
lufthansa	2	0	0	100
luisian_state_university	1	0	100	0
luiss_guido_carli_university_luiss_università_guido_carli	4	0	50	50
lumen_advisors_llc_san_francisco_california	1	0	0	100
lund_university_lunds_universitet	8	0	12.5	87.5
luxembourg_school_of_finance	1	100	0	0
macquarie_university	16	0	18.75	81.25
mahidol_university	2	0	50	50
makerere_university_kampala	1	0	0	100
mälardalen_university_mälardalens_högskola	1	0	0	100
management_department_west_chester_university	1	0	0	100
managing_principal_brunel_associates_llc	1	100	0	0
manchester_metropolitan_university	2	0	0	100
mara_university_of_technology_universiti_teknologi_mara	3	0	0	100
market_psychology_consulting	1	0	100	0
marquette_university	3	0	0	100
marshall_university	1	0	0	100
martingale_asset_management	1	0	100	0
masaryk_university	1	0	0	100
massachusetts_institute_of_technology	57	10.53	31.58	57.89
massey_university_te_kunenga_ki_purehuroa	12	0	25	75

masten_valuation	1	0	0	100
matej_bel_university_univerzita_mateja_bela	1	0	0	100
mathfinance_ag_waldems	1	0	0	100
max_planck_institute_for_tax_law_and_public_finance	2	0	100	0
maxine_goodman_levin_college_of_urban_affairs_cleveland_state_university	1	0	100	0
mays_business_school	1	0	0	100
mcombs_business_school	1	0	0	100
mcgill_university	12	0	41.67	58.33
mckinsey_&_company	1	0	0	100
mcmaster_university	10	10	20	70
mcneese_state_university	2	0	0	100
mcnulty_&_co_llc	1	0	0	100
medical_university_of_south_carolina	2	0	0	100
meiji_university	1	0	0	100
member_shaw_fishman_glantz_&_towbin_llc	1	0	0	100
memorial_university_of_newfoundland	3	0	33.33	66.67
menlo_college	2	50	0	50
mercercapital	2	0	0	100
merrimack_college	1	0	0	100
meyerowitz_communications_inc	1	100	0	0
miami_university	10	10	10	80
michigan_state_university	35	2.86	31.43	65.71
michigan_technological_university	2	0	0	100
middlesex_university	2	0	0	100
middlesex_university_london_dubai_campus	2	0	0	100
millenium_partners	1	0	0	100
ministry_of_finance_czech_republic_ministerstvo_financí_české_republiky	1	0	0	100
minnesota_state_university	1	0	0	100
misr_international_university	1	0	0	100
mississippi_state_university	8	0	50	50
missouri_state_university	3	0	0	100
mizuho_dl_financial_technology	1	0	100	0
moak_casey_&_associates	1	0	0	100
moak_consulting	1	0	0	100
modern_economic_research_center	1	0	0	100
momentum	1	0	0	100
monash_university	45	6.67	26.67	66.67
monash_university_malaysia	1	0	0	100
montana_state_university	1	0	0	100
montclair_state_university	1	0	0	100
monterey_institute_of_international_studies	3	0	33.33	66.67
morgan_stanley	4	0	50	50
morgan_state_university	1	0	100	0
morningstar_investment_management	3	0	0	100
mortgage_bankers_association	1	0	0	100
mount_allison_university	1	0	100	0
msci	1	0	0	100
multimedia_university_universiti_multimedia	4	25	25	50
murdoch_university	1	0	0	100

muroran_institute_of_technology	1	0	0	100
mykolas_romeris_university_mykolo_romerio_universitetas	1	0	0	100
nagarjuna_university	1	0	0	100
nagasaki_university	1	0	0	100
nagoya_city_university	1	0	0	100
nagoya_keizai_university	1	0	0	100
nagoya_university	4	0	25	75
nanayang_technological_university	1	0	0	100
nanjing_university	2	0	50	50
nanyang_technological_university	19	10.53	21.05	68.42
nareit	1	0	0	100
national_american_university	1	100	0	0
national_association_of_college_and_university_business_officers	1	0	0	100
national_autonomous_university_of_mexico_universidad_nacional_autónoma_d e_méxico	1	0	0	100
national_bureau_of_economic_research	4	0	75	25
national_center_for_scientific_research	1	0	100	0
national_central_university	3	0	100	0
national_changhua_university_of_education	1	0	0	100
national_cheng_kung_university	6	0	33.33	66.67
national_chengchi_university	8	0	12.5	87.5
national_chiao_tung_university	2	0	50	50
national_chiayi_university	1	0	0	100
national_chung_hsing_university	2	0	50	50
national_conservatory_of_arts_and_crafts_conservatoire_national_des_arts_et_ métiers	1	0	0	100
national_dong_hwa_university	3	0	33.33	66.67
national_economic_research_institute_china_reform_foundation	1	0	0	100
national_education_association	1	0	0	100
national_hydroelectric_power_corporation_ltd	1	0	0	100
national_institute_for_pure_and_applied_mathematics_instituto_nacional_de_m atemática_pura_e_aplicada	1	0	100	0
national_institute_of_bank_management_pune	1	0	0	100
national_institute_of_economic_and_social_research_niesr	1	0	0	100
national_institute_of_public_finance_and_policy	1	0	0	100
national_kaohsiung_first_university_of_science_and_technology_??????????	1	0	0	100
national_sun_yat-sen_university	1	0	0	100
national_taipei_university_of_technology	2	0	50	50
national_taiwan_ocean_university	1	0	0	100
national_taiwan_university	21	9.52	38.1	52.38
national_tsing_hua_university	2	50	50	0
national_university	1	0	0	100
national_university_of_colombia_universidad_nacional_de_colombia	1	0	100	0
national_university_of_distance_education_universidad_nacional_de_educación _a_distancia	1	0	0	100
national_university_of_general_sarmiento_universidad_nacional_de_general_sar miento	1	0	0	100
national_university_of_la_plata_universidad_nacional_de_la_plata	2	0	50	50
national_university_of_malaysia_universiti_kebangsaan_malaysia	3	33.33	33.33	33.33
national_university_of_rosario_universidad_nacional_de_rosario	1	0	0	100

national_university_of_singapore	43	4.65	37.21	58.14
national_university_south_korea	1	0	0	100
natixis	1	0	0	100
nazarbayev_university	1	0	0	100
nelson_mandela_metropolitan_university	1	0	0	100
netspar_tilburg_university	1	0	0	0
neuberger_berman	1	0	0	100
new_economic_school	1	0	0	100
new_jersey_institute_of_technology	2	0	50	50
new_mexico_state_university	1	100	0	0
new_york_university	106	4.72	34.91	58.49
new_york_university_abu_dhabi	1	0	100	0
new_zealand_treasury_kaitohutohu_kaupapa_rawa	1	0	100	0
newcastle_university	3	0	33.33	66.67
nhh_bergen	1	0	100	0
nib_capital_bank_n_v	1	0	100	0
nice_sophia_antipolis_university_université_nice_sophia_antipolis	1	0	0	100
nihon_university	2	0	0	100
nisa_investment_advisors	1	0	0	100
north_carolina_state_university	20	10	30	60
north_dakota_state_university	1	0	0	100
north_west_university_nwu_yunibesiti_ya_bokone_bophirima	1	0	0	100
northeastern_university	20	0	15	85
northern_alberta_institute_of_technology	1	0	0	100
northern_illinois_university	8	0	25	75
northern_university_of_malaysia_universiti_utara_malaysia	1	0	0	100
northumbria_university	1	0	0	100
northwestern_university	43	11.63	46.51	41.86
norwegian_school_of_economics_norges_handelshøyskole	7	0	71.43	28.57
norwegian_university_of_science_and_technology_norges_teknisk_naturvitensk apelige_universitet	2	0	50	50
nottingham_trent_university	2	0	50	50
nova_southeastern_university	2	0	0	100
nova_university_of_lisbon_universidade_nova_de_lisboa	3	33.33	33.33	33.33
nyenrode_business_university_nyenrode_business_universiteit	1	0	0	100
oakland_university	2	0	0	100
oecd_organisation_de_coopération_et_de_développement_économiques	7	0	28.57	71.43
ofce_centre_de_recherche_en_économie_de_sciences_po	1	0	0	100
office_of_the_controller_of_the_currency	1	0	0	100
ohio_state_university	64	6.25	40.62	53.12
okayama_university	1	0	0	100
oklahoma_state_university	16	0	31.25	68.75
old_dominion_university	7	0	0	100
oliver_wyman	1	0	100	0
opal_consulting_llc	2	0	100	0
open_compliance_ethics_group	1	0	0	100
open_university	2	0	50	50
open_university_of_hong_kong	1	0	0	100
open_university_of_israel	1	0	100	0

open_university_of_madrid_universidad_a_distancia_de_madrid	1	0	0	100
operations_research_consultant_delta_airlines	1	0	0	100
örebro_university	1	0	0	100
oregon_state_university	6	0	0	100
osaka_city_university	1	0	0	100
osaka_university	7	0	71.43	28.57
osmania_university	1	0	0	100
overseas_development_institute	1	0	0	100
ovvo_financial_systems_holmdel_new_jersey	1	0	0	100
owen_graduate_school_of_management	1	0	100	0
oxford_brookes_university	4	25	0	75
pablo_de_olavide_university_universidad_pablo_olavide	3	0	66.67	33.33
pacific_alternative_asset_management_company_llc	1	0	0	100
pacific_lutheran_university	1	0	0	100
paderborn_university_universität_paderborn	1	0	0	100
panagora_asset_management	3	33.33	0	66.67
pantheon_sorbonne_university_university_of_paris_1_panthéon	8	0	75	25
pantheon_ventures	2	0	0	100
parametric_portfolio_associates	1	0	0	100
paris_dauphine_university_universite_paris_dauphine	11	9.09	54.55	36.36
paris_diderot_university_universite_paris_diderot	5	0	80	20
paris_nanterre_university_université_paris_nanterre	6	16.67	33.33	50
paris_school_of_business	1	0	100	0
paris_school_of_economics_ecole_d_économie_de_paris	5	0	20	80
partner_allen_&_overy_llp	1	0	0	100
partner_arnold_&_porter_llp	1	0	0	100
partner_buckleysandler_llp	1	0	0	100
partner_chadbourne_&_parke_llp	2	0	0	100
partner_debevoise_&_plimpton_llp	1	0	0	100
partner_goodwin_procter_llp	1	0	0	100
partner_hudson_cook_llp	1	0	0	100
partner_kelley_drye_&_warren_llp	1	0	0	100
partner_milbank_tweed_hadley_&_mccloy_llp	1	0	0	100
partner_rivkin_radler_llp	1	0	0	100
partner_schiff_hardin_llp	1	0	0	100
partner_squire_sanders_&_dempsey_llp	1	0	0	100
partner_stinson_morrison_hecker_llp	1	0	0	100
partner_stroock_&_stroock_&_lavan_llp	1	0	0	100
partnerre	1	0	100	0
paul_sabatier_university_université_paul_sabatier_toulouse_iii	1	0	100	0
paul_valéry_university_of_montpellier	1	0	0	100
pdt_partners_llc	1	0	0	100
pearl_quest_llc	1	0	0	100
peking_university	19	0	21.05	78.95
pennsylvania_state_university	40	10	27.5	62.5
pepperdine_university	1	0	0	100
peter_wall_institute_for_advanced_studies_&_ubc_faculty_of_law	1	0	0	100
peterson_institute_for_international_economics	2	0	0	100
philadelphia_university	3	33.33	0	66.67

pictet_and_cie_geneva	1	0	0	100
pierre_and_marie_curie_university_université_pierre_et_marie_curie	4	0	25	75
pimco	3	0	33.33	66.67
piper_rudnick_llp	1	0	0	100
pittsburg_state_university	1	0	0	100
plymouth_university	1	0	100	0
polish_academy_of_science_polska_akademia_nauk	1	0	0	100
politehnica_university_of_timisoara_universitatea_politehnica_timisoara	1	0	100	0
polytechnic_institute_of_braganca	1	0	0	100
polytechnic_institute_of_viana_do_castelo	1	0	0	100
polytechnic_university_of_cartagena_universidad_politécnica_de_cartagena	1	0	0	100
pompeu_fabra_university_universitat_pompeu_fabra	15	13.33	60	26.67
pontifical_catholic_university_of_chile_pontificia_universidad_católica_de_chile	1	0	100	0
pontifical_catholic_university_of_rio_de_janeiro_pontificia_universidade_católica_a_do_rio_de_janeiro	3	0	0	100
portland_state_university	12	0	25	75
poznan_university_of_technology_politehnika_pozna?ska	2	0	50	50
prague_university_of_economics_vysoká_škola_ekonomická_v_praze	1	0	0	100
prci_ltd	1	0	0	100
president_veritec_solutions	1	0	0	100
pricewaterhousecoopers	1	0	0	100
primus_valuations	1	0	0	100
princeton_university	35	2.86	51.43	45.71
principal_brunger_consulting	1	0	0	100
principal_research_scientist_pros_inc	1	0	0	100
private_practice	1	0	0	100
professors_capital	1	0	0	100
proshare_advisors_llc	2	0	0	100
providence_college	2	0	0	100
prudential_fixed_income	1	0	0	100
purdue_university	23	0	34.78	65.22
pwc_uk	1	0	0	100
qatar_airways	1	0	0	100
quantitative_financial_strategies_inc	1	0	0	100
queen_mary_university_of_london	12	16.67	16.67	66.67
queen_s_university	19	0	15.79	84.21
queen_s_university_belfast	8	0	25	75
queens_university_of_charlotte	1	0	0	100
queensland_university_of_technology	14	7.14	21.43	71.43
radboud_university_nijmegen_radboud_universiteit_nijmegen	2	0	0	100
Raiffeisenbank	1	0	100	0
rand_corporation	1	0	100	0
rand_usa	1	0	0	100
reims_management_school	2	0	0	100
renmin_university_of_china	4	0	25	75
rensselaer_polytechnic_institute	5	0	40	60
resden_university_of_technology	1	0	0	100
research_affiliates_llc	2	0	0	100
research_department	1	0	100	0

reserve_bank_of_australia	1	0	0	100
reserve_bank_of_india	1	100	0	0
resource_group_llc	2	0	50	50
revenue_management_ltd	1	0	0	100
rhl_strategic_solutions	1	0	0	100
rhode_island_college	1	0	0	0
rhodes_university	1	0	0	100
rice_university	25	8	28	64
richard_bernstein_advisors_llc	1	0	0	100
rics	1	0	0	100
riga_technical_university_r?gas_tehnisk?_niversit?te	4	25	0	75
risk_control_london	1	0	0	100
risk_management_veneto_banca	1	0	0	100
ritsumeikan_university	2	50	50	0
rmit_university	1	0	0	100
robeco_asset_management	1	0	0	100
robert_gordon_university_aberdeen	1	0	100	0
robert_morris_university	3	0	0	100
robert_schuman_university_universit��_robert_schuman	1	0	0	100
robert_w_wood_pc	1	0	0	100
roberts_&_holland_llp	1	0	0	100
roehampton_university	1	0	0	100
roma_tre_university_universit��_degli_studi_roma_tre	1	0	0	100
rooftops_group_llc	1	0	0	100
rothschild_turkiye_n_m_rothschild_and_sons	1	0	0	100
rotterdam_school_of_management	2	0	0	100
rouen_business_school_ecole_sup��rieure_de_commerce_de_rouen	1	0	100	0
roulac_global_places_llc	1	0	0	100
rowan_university	1	0	100	0
royal_holloway_university_of_london	5	0	0	100
royal_melbourne_institute_of_technology	10	0	20	80
ruhr_university_bochum_ruhr_universit��t_bochum	2	0	0	100
russian_academy_of_sciences	1	0	100	0
rutgers_university	58	13.79	34.48	51.72
rutter_associates	1	0	0	100
ryerson_university	2	0	50	50
sacred_heart_university	1	0	0	100
safety_culture_associates	1	0	0	100
saint_joseph_s_university	1	0	0	100
saint_louis_university	3	0	33.33	66.67
saint_mary_s_college_of_california	2	0	0	100
saint_mary_s_university	5	0	20	80
salisbury_university	2	0	50	50
sam_houston_state_university	1	0	0	100
samford_university	1	0	0	100
sami_shamon_college_of_engineering	1	0	0	100
san_diego_state_university	7	0	28.57	71.43
san_francisco_state_university	2	0	0	100
san_jose_state_university	3	0	0	100

sanibel	1	0	100	0
santa_clara_university	16	12.5	31.25	56.25
santa_fe_institute	1	0	0	100
são_paulo_school_of_economics_escola_de_economia_de_são_paulo	1	0	0	100
school_for_advanced_studies_in_the_social_sciences_ecoles_des_hautes_études_en_sciences_sociales_ehess	2	0	0	100
school_of_economics_and_management	1	0	0	100
science_and_finance_capital_fund_management_paris	1	0	0	100
sciences_po	1	0	0	100
sciences_po_institut_d'études_politiques_de_paris	5	0	60	40
sciencespo_lille	1	0	0	100
scor_global_life_se_köln	1	100	0	0
scuola_superiore_iuss	1	0	0	100
seattle_university	1	0	0	100
seconda_università_degli_studi_di_napoli	1	0	100	0
securities_and_exchange_commission	1	0	0	100
securities_and_futures_institute	1	0	0	100
securities_market_agency	1	0	0	100
senior_partner_pricegain	1	0	0	100
senior_vice_president_&_chief_scientist_sabre_holdings	1	0	0	100
senior_vice_president_revenue_&_profit_management_walt_disney_parks_&_resorts	1	0	0	100
seoul_national_university	15	0	26.67	73.33
seton_hall_university	3	0	0	100
shandong_economic_university	1	0	0	100
shanghai_advance_institute_of_finance	2	0	50	50
shanghai_futures_exchange	2	0	50	50
shanghai_jiao_tong_university	2	0	0	100
shanghai_university_of_finance_and_economics	1	0	0	100
shanghai_university_of_sport	1	0	0	100
shannon_pratt_valuations	1	0	0	100
shanti_business_school	1	0	0	100
sheffield_hallam_university	3	0	33.33	66.67
shenandoah_university_winchester_virginia	1	0	0	100
shimadzu_corporation	1	0	100	0
shippensburg_university	1	0	0	100
shri_mata_vaishno_devi_university_katra	1	0	0	100
siddaganga_institute_of_technology	1	0	0	100
siena_college	1	0	0	100
simon_fraser_university	16	0	12.5	87.5
sincere_&_co_llc	1	0	0	100
singapore_institute_for_international_affairs	1	0	0	100
singapore_management_university	21	0	33.33	66.67
skolkovo_institute_of_science_and_technology	1	0	0	100
smh_economic_consulting	1	0	0	100
smith_breeden_associates_inc	1	100	0	0
smith_college	1	0	0	100
smu_dedman_school_of_law	1	0	0	100
sociological_constitution_academy_of_czech_republic	1	0	100	0
sogang_university	2	0	0	100

soka_university	1	0	0	100
solicitor_and_property_law_consultant_gwentian_consulting_limited	1	0	100	0
sony_computer_science_laboratories_inc	1	0	0	100
soochow_university	1	0	0	100
soongsil_university	1	0	0	100
sor_trondelag_university_college_høgskolen_i_sør_trøndelag	1	0	0	100
south_easter_louisiana_university	1	100	0	0
south_methodist_university	1	0	0	100
south_square_chambers_gray's_inn	1	0	0	100
southern_illinois_university	9	11.11	11.11	77.78
southern_methodist_university	16	0	43.75	50
southern_nazarene_university	1	0	0	100
southern_university	1	0	0	100
southern_utah_university	1	0	0	100
southwestern_university_of_finance_and_economics	3	0	0	100
sponsormetrix_ltd	1	0	0	100
ss_cyril_and_methodius_university	2	0	50	50
st_francis_xavier_university	1	0	0	100
st_galler_kantonalbank	1	0	0	100
st_john_s_college	1	100	0	0
st_john_s_university	6	0	50	50
st_mary_s_college_autonomous	1	0	0	100
st_mary_s_university	2	0	50	50
standard_&_poor_s_ratings_services	1	0	100	0
stanford_university	59	10.17	47.46	42.37
stanford_university_kyoto_japan	2	0	50	50
starr_distinguished_professor_of_finance_&_investment_banking	1	0	100	0
state_street_global_advisors	1	0	0	100
state_street_global_exchange	1	0	0	100
state_university_of_new_york	5	0	20	80
state_university_of_new_york_at_albany	2	0	0	100
state_university_of_new_york_at_buffalo	9	11.11	33.33	55.56
state_university_of_new_york_at_geneseo	1	0	0	100
state_university_of_new_york_at_new_paltz	1	0	0	100
state_university_of_new_york_at_oswego	1	0	0	100
state_university_of_new_york_at_plattsburgh	1	0	0	100
state_university_of_new_york_at_stony_brook	2	0	0	100
steklov_institute	2	0	0	100
stellenbosch_university_universiteit_van_stellenbosch	1	0	0	100
stetson_university	3	0	0	100
stevens_institute_of_technology	1	0	0	100
stockholm_school_of_economics_handelshögskolan_i_stockholm	11	0	36.36	63.64
stockholm_university_stockholms_universitet	7	0	14.29	85.71
stony_brook_university	6	0	33.33	66.67
successfactors_an_sap_company	1	0	0	100
suffolk_university	5	0	0	100
sumy_state_university	1	0	0	100
sun_yat_sen_university	4	25	25	50
sungkyunkwan_university	6	16.67	0	83.33

sungshin_university	1	0	0	100
sunway_university	1	0	0	100
superior_de_economia_e_gestão	1	0	0	100
swansea_university_prifysgol_abertawe	1	0	100	0
swedish_national_bank_sveriges_riksbank	1	0	0	100
swedish_university_of_agricultural_economics_sveriges_lantbruksuniversitet	1	0	100	0
swiss_federal_institute_of_technology_in_lausanne_ecole_polytechnique_federale_de_lausanne	12	8.33	75	16.67
swiss_finance_institute	2	0	50	50
swiss_financial_market_supervisory_authority	1	0	0	100
swiss_graduate_school_of_public_administration_institut_des_hautes_études_e_n_administration_publique	1	0	0	100
swiss_international_air_lines_ltd	1	0	0	100
swiss_national_bank_schweizerische_nationalbank	1	0	0	100
swiss_re	1	0	0	100
syracuse_university	15	6.67	26.67	66.67
system_two_advisors_arwen_advisors	1	0	0	100
t_a_pai_management_institute	1	0	0	100
t_rowe_price	1	0	0	100
tacoma_community_college	1	0	0	100
taipei_veterans_general_hospital	1	0	0	100
tallinn_university_of_technology_tallinna_tehnikaülikool	2	50	0	50
tamkang_university	2	0	50	50
technical_university_of_darmstadt_technische_universität_darmstadt	1	0	0	100
technical_faculty_of_czu_in_prague	1	0	100	0
technical_university_of_berlin_technische_universität_berlin	2	0	50	50
technical_university_of_cologne_fachhochschule_köln	1	0	0	100
technical_university_of_crete	1	0	0	100
technical_university_of_dortmund_technische_universität_dortmund	1	0	0	100
technical_university_of_munich_technische_universität_münchen	1	0	0	100
technical_university_of_ostrava	1	0	0	100
technical_university_of_ostrava_vysoká_skola_bá?ská	1	0	0	100
technical_university_of_valencia_universitat_politècnica_de_valència	2	0	0	100
techniker_krankenkasse_hamburg	1	0	100	0
technion_israel_institute_of_technology	2	0	50	50
technische_universität_ilmenau	1	0	0	100
technische_universität_kaiserslautern	1	0	0	100
technische_universität_münchen_garching_b_münchen	1	0	100	0
technological_educational_institute_of_thessaloniki_tei	1	0	0	100
tel_aviv_university	13	7.69	61.54	30.77
temple_university	31	6.45	19.35	74.19
texas_a_and_m_university	32	6.25	21.88	71.88
texas_christian_university	11	0	36.36	63.64
texas_southern_university	1	0	0	100
texas_state_university	2	0	50	50
texas_tech_university	23	17.39	21.74	60.87
thailand_development_research_institute	1	0	0	100
the_american_college	2	0	0	100
the_american_university	4	0	0	100
the_bank_of_tokyo_mitsubishi	1	0	0	100

the_brookings_institution	1	0	0	100
the_bucharest_university_of_economic_studies	2	0	50	50
the_capital_group_companies	1	0	0	100
the_capital_roundtable	1	0	0	100
the_center_for_investment_research	1	0	0	100
the_central_bank_of_china	1	0	100	0
the_citadel	1	0	0	100
the_city_university_of_new_york	24	4.17	33.33	62.5
the_coleridge_group	1	0	0	100
the_college_of_management	1	0	0	100
the_college_of_new_jersey	1	100	0	0
the_customer_framework_ltd	1	0	0	100
the_family_business_consulting_group	1	0	0	100
the_fields_institute	2	0	100	0
the_garvin_school_of_int_management_thunderbird	1	0	0	100
the_geneva_association	1	0	0	0
the_geneva_association_warsaw	1	0	0	100
the_german_institute_for_economic_research_deutsches_institut_für_wirtschaftsforschung	1	0	100	0
the_global_university_of_islamic_finance_inceif	2	0	0	100
the_graduate_institute_geneva_institut_de_hautes_études_internationales_et_du_développement	3	33.33	33.33	33.33
the_jeffrey_company	1	0	0	100
the_karol_adamiecki_university_of_economics_in_katowice	1	0	0	100
the_mclean_group_llc	1	0	0	100
the_national_alliance_program_in_risk_management_and_insurance	1	0	0	0
the_new_school_for_social_research	1	0	0	100
the_public_authority_for_applied_education_and_training	1	0	0	100
the_romanian_academy	1	0	100	0
the_royal_institute_of_technology_kungliga_tekniska_högskolan	4	0	0	100
the_university_of_hong_kong	10	0	10	90
the_university_of_newcastle	4	0	0	100
the_university_of_western_australia	2	0	0	100
the_vanguard_group	1	0	0	100
the_world_trade_organisation_geneva_switzerland	1	0	0	100
thoma_bravo_llc	1	0	0	100
thomas_ho_company	1	0	0	100
thunderbird_school_of_global_management	4	0	0	100
tilburg_university	46	6.52	39.13	52.17
time_lex	1	0	0	100
tinsley_and_associates	1	0	0	100
tippie_college_of_business	1	0	0	100
tishman_speyer_properties	1	0	0	100
tokyo_institute_of_technology	2	0	50	50
tokyo_metropolitan_university	1	0	100	0
tokyo_university_of_marine_science_and_technology	1	0	0	100
tokyo_university_of_science	2	0	50	50
tongji_university	1	0	100	0
toulouse_1_university_capitole_université_toulouse_1_capitole	20	15	60	25
touro_college	1	0	0	100

towers_watson	1	100	0	0
towson_university	1	0	0	100
toyo_university	1	0	0	100
transport_and_telecommunication_institute_transporta_un_sakaru_instit?ts	1	0	0	100
trent_university	2	0	0	100
trinity_college_cambridge	1	0	0	100
trinity_college_dublin	8	25	37.5	25
trinity_university	2	0	50	50
tshwane_university_of_technology_pretoria	1	0	0	100
tsinghua_university	7	0	14.29	85.71
tu_dortmund_university_technische_universität_dortmund	1	0	0	100
tu_dresden_technische_universität_dresden	3	0	66.67	0
tübingen_university_hospital_universitätsklinikum_tübingen	2	0	0	100
tudor_investment_corporation	1	0	0	100
tufts_university	4	0	25	75
tulane_university	5	0	20	80
turku_school_of_economics_turun_kauppakorkeakoulu	5	0	20	80
twenty_first_securities_corporation	1	0	0	100
u_s_treasury_department	1	0	100	0
ubs	2	0	50	50
uc_davis_and_shanghai_advanced_institute_for_finance	1	0	0	100
uk_public_sector_consultants	1	0	0	100
ukrainian_academy_of_banking_of_the_national_bank_of_ukraine	3	66.67	0	33.33
ulster_university	1	0	0	100
umeå_university_umeå_universitet	4	0	75	25
unconstrainedthought	1	0	0	100
unicorn_college	1	0	100	0
uninettuno_university_universita_telematica_internazionale_uninettuno	1	0	0	100
united_arab_emirates_university	3	0	33.33	66.67
united_nations_university_wider	1	0	0	100
united_states_air_force_academy	1	0	0	100
universidad_de_cantabria_santander	1	0	100	0
universidad_del_rosario	1	0	0	100
universidad_des_les_illes_balears	1	0	0	100
universidad_panamericana	1	0	0	100
universidad_privada_boliviana	1	0	0	100
universidad_pública_de_navarra	2	0	0	100
universidade_do_vale_do_rio_dos_sinos_unisinos	1	0	0	100
université_de_montréal	2	0	100	0
universite_de_montreal	1	0	0	100
université_du_québec_à_montréal	5	0	20	80
universite_du_quebec_à_montréal	1	0	0	100
universities_of_macedonia	2	0	50	50
university_al_ain	3	0	66.67	33.33
university_alpes_grenoble_université_grenoble_alpes	1	0	0	100
university_college_cork	1	0	100	0
university_college_dublin	6	16.67	33.33	50
university_institute_of_lisbon_iul_instituto_universitário_de_lisboa	1	0	0	100
university_of_oklahoma	1	0	0	100

university_of_a_coruña_universidad_de_la_coruña	1	0	0	100
university_of_aberdeen	6	0	0	100
university_of_adelaide	6	0	0	100
university_of_akron	8	0	50	50
university_of_alabama	20	5	35	60
university_of_alaska	1	0	0	100
university_of_alberta	23	4.35	30.43	65.22
university_of_alcala_universidad_de_alcalá	4	0	0	100
university_of_alicante_universidad_de_alicante	3	33.33	66.67	0
university_of_amsterdam_universiteit_van_amsterdam	25	4	44	52
university_of_angers_université_d_angers	1	0	0	100
university_of_antwerp_universiteit_antwerpen	6	0	33.33	66.67
university_of_applied_sciences_fachhochschule	1	0	0	100
university_of_applied_sciences_hes_so_haute_école_spécialisée_de_suisse_occidentale	3	0	0	100
university_of_applied_sciences_worms_hochschule_worms	2	0	0	100
university_of_arizona	8	0	50	50
university_of_arkansas	12	8.33	8.33	83.33
university_of_auckland_te_whare_wananga_o_tamaki_makaurau	22	0	22.73	77.27
university_of_ballarat	1	0	100	0
university_of_ballarat	1	0	0	100
university_of_baltimore	5	0	0	100
university_of_bamberg_otto_friedrich_universität_bamberg	1	0	100	0
university_of_barcelona_universidad_de_barcelona	6	16.67	66.67	16.67
university_of_basel_universität_basel	3	0	0	100
university_of_bath	8	0	25	75
university_of_bayreuth_universität_bayreuth	6	0	0	100
university_of_bedfordshire	1	0	0	100
university_of_beira_interior_portugal_universidade_da_beira_interior	2	0	100	0
university_of_belgrade	1	0	100	0
university_of_bergamo_università_degli_studi_di_bergamo	2	0	50	50
university_of_bern_universität_bern	5	0	100	0
university_of_birmingham	7	14.29	14.29	71.43
university_of_bologna_università_di_bologna	6	0	16.67	83.33
university_of_bonn_rheinische_friedrich_wilhelms_universität_bonn	8	0	50	50
university_of_bordeaux_université_de_bordeaux	4	0	0	100
university_of_bradford	1	0	0	100
university_of_bremen_universität_bremen	1	0	0	100
university_of_brescia	1	0	0	100
university_of_bridgeport	2	50	0	50
university_of_bristol	9	0	44.44	55.56
university_of_british_columbia	37	2.7	45.95	51.35
university_of_brunei_darussalam	1	0	0	100
university_of_burgos_universidad_de_burgos	1	0	0	100
university_of_cádiz_universidad_de_cádiz	5	0	0	100
university_of_cagliari_università_degli_studi_di_cagliari	1	0	0	100
university_of_calgary	9	0	22.22	77.78
university_of_california	43	2.33	62.79	34.88
university_of_california_at_berkeley	41	2.44	51.22	46.34

university_of_california_at_davis	9	11.11	22.22	66.67
university_of_california_at_irvine	13	0	30.77	69.23
university_of_california_at_los_angeles	27	3.7	40.74	55.56
university_of_california_at_riverside	4	0	0	100
university_of_california_at_san_diego	11	9.09	27.27	63.64
university_of_california_at_santa_barbara	8	12.5	50	37.5
university_of_california_at_santa_cruz	8	0	50	50
university_of_cambridge	31	12.9	41.94	45.16
university_of_canberra	4	25	25	50
university_of_cantabria_universidad_de_cantabria	2	0	0	100
university_of_canterbury	1	0	0	100
university_of_canterbury_te_whare_wananga_o_waitaha	9	11.11	22.22	66.67
university_of_cape_town	7	28.57	14.29	57.14
university_of_castilla_la_mancha_universidad_de_castilla_la_mancha	4	25	75	0
university_of_catania_università_degli_studi_di_catania	5	0	20	80
university_of_cema	1	0	0	100
university_of_central_florida	18	5.56	11.11	83.33
university_of_central_missouri	1	0	0	100
university_of_cergy_université_de_cergy	1	0	0	100
university_of_chicago	58	8.62	43.1	48.28
university_of_chieti_pescara_università_degli_studi_g_d_annuzio	1	0	0	100
university_of_chile_universidad_de_chile	2	50	0	50
university_of_cincinnati	8	0	0	100
university_of_coimbra_universidade_de_coimbra	1	0	0	100
university_of_cologne_universität_zu_köln	5	0	60	40
university_of_colorado	16	0	18.75	81.25
university_of_connecticut	22	9.09	13.64	77.27
university_of_copenhagen_københavns_universitet	5	0	80	20
university_of_crete	1	0	0	100
university_of_cyprus	6	0	50	50
university_of_dallas	1	0	0	100
university_of_dayton	7	14.29	42.86	42.86
university_of_delaware	10	0	30	70
university_of_denver	3	0	0	100
university_of_duisburg_essen_universität_duisburg_essen	2	0	100	0
university_of_dundee	7	0	42.86	57.14
university_of_east_anglia	5	0	40	60
university_of_eastern_finland_itä-suomen_yliopisto	1	0	0	100
university_of_economics_bratislava	1	0	0	100
university_of_economics_prague_vysoká_škola_ekonomická_v_praze	15	6.67	73.33	20
university_of_edinburgh	15	20	6.67	73.33
university_of_edingburh	1	0	0	100
university_of_essex	8	25	12.5	62.5
university_of_evry_val_d_essonne_université_d_evry_val_d_essonne	5	0	60	40
university_of_exeter	7	0	14.29	85.71
university_of_extremadura_universidad_de_extremadura	1	0	0	100
university_of_ferrara_università_degli_studi_di_ferrara	5	0	40	60
university_of_finance_and_management_in_warsaw	1	0	0	100
university_of_florida	35	2.86	40	57.14

university_of_franche_comte_université_de_franche_comté	1	0	0	100
university_of_frankfurt_main_johann_wolfgang_goethe_universität_frankfurt_a m_main	11	9.09	45.45	45.45
university_of_freiburg_albert_ludwigs_universität_freiburg	2	0	50	50
university_of_french_polynesia_université_de_la_polynésie_française	1	0	0	100
university_of_fribourg_université_de_fribourg	4	0	25	75
university_of_geneva_université_de_genève	15	26.67	33.33	40
university_of_gent_universiteit_gent	3	0	0	100
university_of_georgia	32	18.75	31.25	50
university_of_ghana	3	0	0	100
university_of_ghent_universiteit_gent	2	50	0	50
university_of_glasgow	30	6.67	23.33	70
university_of_goettingen_universität_göttingen	1	0	0	100
university_of_gothenburg_göteborgs_universitet	4	0	25	75
university_of_granada_universidad_de_granada	1	0	100	0
university_of_graz_karl_franzens_universitaet	4	0	0	100
university_of_greenwich	1	0	0	100
university_of_groningen_rijksuniversiteit_groningen	5	20	0	80
university_of_guelph	7	14.29	28.57	57.14
university_of_haifa	1	0	0	100
university_of_hamburg_universität_hamburg	2	0	50	50
university_of_hannover_leibniz_universität_hannover	3	33.33	33.33	33.33
university_of_hartford	1	0	0	100
university_of_hawaii_at_manoa	14	14.29	21.43	64.29
university_of_helsinki_helsingin_yliopisto	2	0	100	0
university_of_hertfordshire	3	0	33.33	66.67
university_of_hohenheim_universität_hohenheim	1	0	0	100
university_of_houston	17	0	41.18	58.82
university_of_hradec_kralove	1	0	100	0
university_of_huelva_universidad_de_huelva	4	25	25	50
university_of_hull	3	0	0	100
university_of_iceland_háskóli_islands	1	0	0	100
university_of_illinois_at_chicago	11	0	9.09	81.82
university_of_illinois_at_springfield	2	0	0	100
university_of_illinois_at_urbana_champaign	59	8.47	33.9	55.93
university_of_indiana_at_bloomington	1	0	0	100
university_of_indonesia_universitas_indonesia	1	0	0	100
university_of_innsbruck_leopold_franzens_universität_innsbruck	6	0	16.67	83.33
university_of_international_business_and_economics	1	0	100	0
university_of_iowa	17	11.76	47.06	41.18
university_of_jaén_universidad_de_jaén	2	0	0	100
university_of_jena_friedrich_schiller_universität_jena	1	0	0	100
university_of_johannesburg	1	0	0	100
university_of_jyväskylä_jyväskylän_yliopisto	1	0	0	100
university_of_kansas	16	6.25	31.25	62.5
university_of_kassel_universität_kassel	1	0	100	0
university_of_kent	7	0	28.57	71.43
university_of_kentucky	13	0	7.69	92.31
university_of_khartoum	2	0	0	100

university_of_kiel_christian_albrechts_universität_zu_kiel	6	0	50	50
university_of_klagenfurt_alpen_adria_universitat_klagenfurt	1	0	100	0
university_of_konstanz_universität_konstanz	3	0	33.33	66.67
university_of_la_rioja_universidad_de_la_rioja	1	0	0	100
university_of_las_palmas_de_gran_canaria_universidad_de_las_palmas_de_gran_canaria	4	0	0	100
university_of_latvia	1	0	0	100
university_of_lausanne_université_de_lausanne	14	14.29	21.43	64.29
university_of_leeds	12	0	16.67	83.33
university_of_leicester	11	9.09	18.18	72.73
university_of_leipzig_universität_leipzig	1	0	100	0
university_of_león_universidad_de_león	1	0	0	100
university_of_lethbridge	3	0	0	100
university_of_liege_université_de_liège	6	0	83.33	16.67
university_of_lille_université_de_lille	1	0	0	100
university_of_limerick	2	0	100	0
university_of_limoges_université_de_limoges	3	0	100	0
university_of_lisbon_universidade_de_lisboa	1	0	0	100
university_of_liverpool	8	0	25	75
university_of_ljubljana_univerza_v_ljubljani	6	0	16.67	83.33
university_of_london	30	10	50	36.67
university_of_louisiana_at_lafayette	3	0	0	100
university_of_louisville	5	0	0	100
university_of_lugano_università_della_svizzera_italiana	7	0	14.29	85.71
university_of_lund_lunds_universitet	2	0	0	100
university_of_luxembourg_université_du_luxembourg	5	0	40	60
university_of_lyon_2_université_lumière_lyon_2	2	0	50	50
university_of_maastricht_universiteit_maastricht	18	0	38.89	55.56
university_of_macau	3	0	0	100
university_of_macedonia	1	0	0	100
university_of_macerata_università_degli_studi_di_macerata	1	0	0	100
university_of_madrid	1	100	0	0
university_of_magdeburg_otto_von_guericke_universität_magdeburg	1	0	100	0
university_of_mainz_universität_mainz	1	0	100	0
university_of_malaga_universidad_de_málaga	2	0	50	50
university_of_malaya_universiti_malaya	1	0	0	100
university_of_malaysia_pahang_universiti_malaysia_pahang	1	0	0	100
university_of_malaysia_sarawak_universiti_malaysia_sarawak	11	9.09	0	90.91
university_of_management	1	0	0	100
university_of_manchester	27	7.41	25.93	62.96
university_of_manitoba	5	0	0	100
university_of_mannheim_universität_mannheim	12	0	66.67	33.33
university_of_manouba	1	0	100	0
university_of_maribor_univerza_v_mariboru	2	0	50	50
university_of_marne_la_vallee_université_paris_est_marne_la_vallée	1	0	100	0
university_of_maryland	49	8.16	44.9	46.94
university_of_massachusetts	15	26.67	20	53.33
university_of_melbourne	43	6.98	27.91	65.12
university_of_memphis	9	0	44.44	55.56

university_of_messina_università_degli_studi_di_messina	4	25	0	75
university_of_miami	17	0	23.53	76.47
university_of_michigan	56	3.57	42.86	53.57
university_of_milan_università_degli_studi_di_milano	1	0	0	100
university_of_minho_universidade_do_minho	1	0	0	100
university_of_minnesota	25	0	36	64
university_of_mississippi	12	0	33.33	66.67
university_of_missouri	29	3.45	20.69	75.86
university_of_mons_université_de_mons	1	0	100	0
university_of_montana	1	0	0	100
university_of_montpellier_université_montpellier_i	1	0	0	100
university_of_muenster_westfälische_wilhelms_universität_münster	1	0	0	100
university_of_mumbai	2	50	0	50
university_of_munich_ludwig_maximilians_universität_münchen	12	8.33	41.67	50
university_of_münster_westfälische_wilhelms_universität_munster	3	33.33	66.67	0
university_of_murcia_universidad_de_murcia	3	0	0	100
university_of_namibia	1	0	0	100
university_of_namur_université_de_namur	1	0	0	100
university_of_nancy_université_de_nancy	1	0	0	100
university_of_nantes_universite_de_nantes	1	0	0	100
university_of_naples_federico_ii_università_degli_studi_di_napoli_federico_ii	4	0	0	100
university_of_navarra_universidad_de_navarra	12	8.33	8.33	83.33
university_of_nebraska	13	0	30.77	61.54
university_of_neuchâtel	1	0	0	100
university_of_nevada	10	0	10	90
university_of_new_england	2	0	50	50
university_of_new_hampshire	5	0	20	80
university_of_new_mexico	7	0	14.29	85.71
university_of_new_orleans	7	28.57	0	71.43
university_of_new_south_wales	54	5.56	22.22	72.22
university_of_nice_sophia_antipolis_université_nice_sophia_antipolis	1	0	0	100
university_of_north_carolina	7	0	0	100
university_of_north_carolina_at_chapel_hill	24	8.33	33.33	54.17
university_of_north_carolina_at_charlotte	13	7.69	23.08	69.23
university_of_north_carolina_at_greensboro	3	0	0	100
university_of_north_carolina_at_wilmington	3	0	33.33	66.67
university_of_north_dakota	1	0	0	100
university_of_north_florida	1	0	0	100
university_of_north_texas	11	0	18.18	81.82
university_of_northern_colorado	1	0	0	100
university_of_northern_iowa	1	0	0	100
university_of_notre_dame	21	0	61.9	38.1
university_of_nottingham	20	10	25	65
university_of_nottingham_china	1	0	0	100
university_of_novi_univerzitet_u_novom	1	0	100	0
university_of_oklahoma	18	0	22.22	77.78
university_of_oldenburg_carl_von_ossietzky_universität_oldenburg	2	50	50	0
university_of_oregon	6	0	66.67	33.33
university_of_orleans_université_d'orléans	1	0	0	100

university_of_oslo_universitetet_i_oslo	4	0	25	75
university_of_osnabrück_universität_osnabrück	2	0	50	50
university_of_otago_te_whare_wananga_o_otago	3	0	33.33	66.67
university_of_ottawa	6	0	0	100
university_of_oulu_oulun_yliopisto	2	0	100	0
university_of_oviedo_universidad_de_oviedo	5	0	40	60
university_of_oxford	47	10.64	38.3	51.06
university_of_paderborn_universität_paderborn	1	0	0	100
university_of_padua_università_degli_studi_di_padova	7	14.29	0	85.71
university_of_palermo_università_degli_studi_di_palermo	4	0	25	75
university_of_paris_est	1	0	0	100
university_of_paris_sud_universite_paris_sud	6	16.67	16.67	66.67
university_of_passau_universitat_passau	4	25	25	50
university_of_pavia_universita_delgi_studi_di_pavia	1	0	0	100
university_of_pennsylvania	87	16.09	45.98	37.93
university_of_piraeus	4	0	25	75
university_of_pittsburgh	17	5.88	29.41	58.82
university_of_portsmouth	2	0	50	50
university_of_potsdam_universität_potsdam	1	0	0	100
university_of_pretoria	4	0	0	100
university_of_prince_edward_island	1	0	0	100
university_of_qatar	1	0	0	100
university_of_queensland	31	3.23	29.03	67.74
university_of_radford	1	0	0	100
university_of_reading	27	3.7	7.41	85.19
university_of_regensburg_universität_regensburg	3	0	0	100
university_of_regina	1	0	0	100
university_of_rhode_island	3	33.33	0	66.67
university_of_richmond	3	0	33.33	66.67
university_of_rijeka_sveučilište_u_rijeci	11	18.18	27.27	54.55
university_of_rochester	32	12.5	34.38	53.12
university_of_rome_ii_università_degli_studi_di_roma_tor_vergata	2	0	0	100
university_of_rome_università_di_roma	1	0	100	0
university_of_salamanca_universidad_de_salamanca	3	0	0	100
university_of_salerno_università_degli_studi_di_salerno	1	0	100	0
university_of_san_diego	3	0	0	100
university_of_san_francisco	1	0	0	100
university_of_sannio_università_degli_studi_del_sannio	1	0	0	100
university_of_santiago_de_compostela_universidad_de_santiago_de_compostela	4	50	0	50
university_of_saskatchewan	6	0	0	100
university_of_science_universiti_sains_malaysia	3	100	0	0
university_of_seville_universidad_de_sevilla	3	0	0	100
university_of_sharjah	2	0	50	50
university_of_sheffield	5	0	0	100
university_of_sidney	1	0	0	100
university_of_siegen_universität_siegen	1	0	100	0
university_of_siena_università_degli_studi_di_siena	2	0	0	100
university_of_south_australia	11	9.09	18.18	72.73

university_of_south_carolina	40	5	22.5	72.5
university_of_south_florida	9	0	22.22	77.78
university_of_south_wales	1	0	0	100
university_of_southampton	4	0	25	75
university_of_southern_california	47	10.64	46.81	42.55
university_of_southern_denmark_syddansk_universitet	3	33.33	33.33	33.33
university_of_southern_maine	1	0	0	100
university_of_southern_mississippi	1	0	0	100
university_of_st_andrews	7	0	28.57	71.43
university_of_st_gallen_universität_st_gallen	19	10.53	21.05	68.42
university_of_st_thomas	6	0	0	100
university_of_stavanger_universitetet_i_stavange	1	0	100	0
university_of_stellenbosch_business_school	1	0	0	100
university_of_stirling	5	0	20	60
university_of_stockholm_stockholms_universitet	1	0	0	100
university_of_strasbourg_université_de_strasbourg	4	0	25	75
university_of_strathclyde	9	11.11	0	88.89
university_of_stuttgart_universität_stuttgart	1	0	0	100
university_of_surrey	3	66.67	33.33	0
university_of_sussex	13	7.69	30.77	61.54
university_of_sydney	40	2.5	27.5	70
university_of_szczecin	1	0	0	100
university_of_taiwan	1	0	0	100
university_of_tampa	1	0	0	100
university_of_tampere_tampereen_yliopisto	1	0	0	100
university_of_tasmania	5	0	60	40
university_of_technology_sydney	23	8.7	26.09	65.22
university_of_tennessee	12	0	16.67	83.33
university_of_texas_at_arlington	8	0	0	100
university_of_texas_at_austin	45	6.67	44.44	48.89
university_of_texas_at_dallas	19	5.26	42.11	52.63
university_of_texas_at_el_paso	7	0	0	100
university_of_texas_at_san_antonio	19	10.53	26.32	57.89
university_of_texas_at_tyler	1	0	0	100
university_of_texas_of_the_permian_basin	1	0	0	100
university_of_texas_rio_grande_valley	1	0	0	100
university_of_the_aegean	2	0	0	100
university_of_the_balearic_islands_universidad_de_las_islas_baleares	1	0	100	0
university_of_the_basque_universidad_del_país_vasco	2	0	50	50
university_of_the_free_state	1	0	0	100
university_of_the_philippines	3	33.33	33.33	33.33
university_of_the_sunshine_coast	1	0	100	0
university_of_the_west_indies	2	0	50	50
university_of_the_west_of_england	2	0	0	100
university_of_the_witwatersrand	5	40	20	40
university_of_thessaly	3	0	33.33	66.67
university_of_tokyo	24	4.17	45.83	50
university_of_toledo	1	0	0	100
university_of_toronto	54	0	46.3	51.85

university_of_toulon_universite_de_toulon	1	0	100	0
university_of_trento_università_degli_studi_di_trento	2	0	50	50
university_of_triESTE_universita_delgi_studi_di_triESTE	2	0	50	50
university_of_tsukuba	3	0	66.67	33.33
university_of_tübingen_eberhard_karls_universität_tübingen	1	0	100	0
university_of_tulsa	7	14.29	0	85.71
university_of_turin_università_degli_studi_di_torino	5	20	60	20
university_of_turku_turun_yliopisto	1	0	0	100
university_of_twente_universiteit_twente	2	0	0	100
university_of_ulster_ollscoil_uladh	9	33.33	0	66.67
university_of_upper_alsece_université_de_haute_alsace	1	0	0	100
university_of_urbino_universita_degli_studi_di_urbino_carlo_bo	1	0	0	100
university_of_utah	20	10	30	60
university_of_utrecht_universiteit_utrecht	2	0	0	100
university_of_vaasa_vaasan_yliopisto	4	0	25	75
university_of_valencia_universidad_de_valencia	7	14.29	0	85.71
university_of_venice_università_ca_foscari_venezia	7	0	42.86	57.14
university_of_vermont	5	20	20	60
university_of_vienna_universität_wien	5	0	20	80
university_of_vigo_universidad_de_vigo	3	0	33.33	66.67
university_of_virginia	19	15.79	36.84	47.37
university_of_waikato_te_whare_wananga_o_waikato	8	0	37.5	62.5
university_of_wales	2	0	0	100
university_of_warsaw	1	0	0	100
university_of_warwick	33	9.09	42.42	48.48
university_of_washington	33	12.12	48.48	39.39
university_of_waterloo	26	11.54	19.23	65.38
university_of_west_bohemia_západo?eská_univerzita_v_plzni	1	0	0	100
university_of_west_london	1	0	0	100
university_of_western_australia	9	0	11.11	88.89
university_of_western_sydney	8	0	50	50
university_of_westminster	2	0	50	50
university_of_winchester	1	0	0	100
university_of_windsor	3	0	0	100
university_of_winnipeg	1	0	0	100
university_of_wisconsin	51	9.8	15.69	72.55
university_of_witwatersrand	3	33.33	0	66.67
university_of_wollongong	19	5.26	68.42	26.32
university_of_wuppertal_bergische_universität_wuppertal	1	0	100	0
university_of_wyoming	3	0	33.33	66.67
university_of_york	3	0	100	0
university_of_zagreb	3	0	66.67	33.33
university_of_zaragoza_universidad_de_zaragoza	7	14.29	14.29	71.43
university_of_zurich_universität_zürich	19	5.26	47.37	47.37
university_putra_malaysia	3	0	0	100
university_west_högskolan_väst	1	0	0	100
universityof_delaware	1	0	0	100
uppsala_university_uppsala_universitet	8	0	37.5	62.5
utah_state_university	5	0	0	100

utgers_business_school	1	0	0	100
valdosta_state_university	1	0	0	100
valparaiso_university	1	0	0	100
valuquest_limited	1	0	0	100
vanderbilt_university	32	9.38	37.5	53.12
venable_llp	1	0	0	100
venture_capitalist	1	0	0	100
verulam_buildings_gray_s_inn_london	1	100	0	0
vice_president_cargo_dhl_aviation_americas	1	0	0	100
victoria_university	5	0	0	100
victoria_university_of_wellington	9	11.11	33.33	55.56
vienna_institute_for_international_economic_studies_osterreichisches_institut_für_wirtschaftsforschung	3	0	33.33	66.67
vienna_institute_of_finance_wirtschaftsuniversität_wien	1	0	100	0
vienna_university_of_economics_and_business_wirtschaftsuniversität_wien	10	10	30	60
vienna_university_of_technology_technische_universität_wien	2	0	0	100
villanova_university	14	21.43	28.57	50
vilnius_gediminas_technical_university_vilniaus_gedimino_technikos_universitetas	12	16.67	8.33	75
vilnius_university_vilniaus_universitetas	2	0	50	50
virginia_commonwealth_university	11	0	0	100
virginia_tech	12	8.33	16.67	75
vistula_university_akademia_finansów_i_biznesu_vistula	1	0	0	100
volterra_consulting	1	0	0	100
vu_university_amsterdam_vrije_universiteit_amsterdam	12	0	33.33	66.67
vytautas_magnus_university_vytauto_didžiojo_universitetas	1	0	0	100
wadham_college	1	0	0	100
wageningen_university_and_research_centre	2	0	0	100
wake_forest_university	8	0	50	50
wall_street_journal	1	0	100	0
warsaw_school_of_economics	4	0	0	100
waseda_university	2	0	0	100
washburn_university	2	0	0	100
washington_and_lee_university	1	0	0	100
washington_state_university	6	16.67	33.33	50
washington_university_in_st_louis	11	9.09	54.55	36.36
wayne_state_university	13	0	15.38	84.62
weierstrass_institute_for_applied_analysis_and_stochastics	1	0	0	100
wellesley_college	2	0	100	0
wells_fargo_bank	2	0	0	100
wesley_college_australia	1	0	0	100
west_virginia_university	12	0	16.67	83.33
western_asset_management_company	1	0	0	100
western_connecticut_state_university	1	0	0	100
western_kentucky_university	1	0	0	100
western_michigan_university	1	0	0	100
western_new_mexico_university	1	0	0	100
western_university_london_ontario	13	0	23.08	76.92
western_university_usa	1	0	0	100
western_valuation_advisors	1	0	0	100

western_washington_university	1	0	0	100
westminster_college	1	0	0	100
whitebox_high_frequency_trading_fund	1	0	0	100
whitehead_institute	1	0	100	0
whu_vallendar_otto_beisheim_school_of_management	9	0	11.11	88.89
wichita_state_university	4	0	0	100
wilcox_investments	1	0	0	100
wilfrid_laurier_university	6	0	50	50
willamette_university	3	0	0	100
william_college	1	0	100	0
william_f_harrarh_college_of_hotel_administration	1	0	0	100
williams_college	4	75	25	0
Wilsonart	1	0	0	0
windham_capital_management	4	0	25	75
withers_consulting_group	1	0	0	100
wits_university	1	0	0	100
witten_herdecke_university	1	0	0	100
wolfram_research	1	0	0	100
woodbine_capital_advisors_lp	1	0	0	100
worcester_polytechnic_institute	1	0	0	100
world_bank	29	6.9	17.24	75.86
woxsen_school_of_business_hyderabad	1	0	0	100
wright_state_university	1	0	0	100
wroclaw_university_of_economics_uniwersytet_ekonomiczny_we_wroc?awiu	2	0	100	0
wu_vienna_university_of_economics_and_business_wirtschaftsuniversität_wien	4	0	25	75
wuhan_university	5	0	40	60
xidian_university	1	0	0	100
yale_university	36	11.11	36.11	52.78
yokohama_national_university	3	0	33.33	66.67
yonsei_university	5	0	0	100
york_university	50	10	30	56
youchange_new_philanthropy_university	1	0	100	0
youngstown_state_university	1	0	0	100
yuan_ze_university	1	0	100	0
yuanta_futures	1	0	0	100
zeppelin_university_zeppelin_universität	1	0	100	0
zhejiang_university	1	0	0	100
zhejiang_university_of_technology	1	0	0	100
zhengzhou_university_of_aeronautics	1	0	0	100
zolfo_cooper_llp_london	1	0	0	100

Table 52 Affiliation Tiers

Country Tiers

Country	Total	Tier1	Tier2	Tier3
argentina	6	0	16.67	83.33
australia	440	4.55	26.82	68.64
austria	37	2.7	21.62	75.68
belgium	62	3.23	40.32	56.45
bolivia	1	0	0	100
brazil	14	0	35.71	64.29
brunei	1	0	0	100
bulgaria	3	0	0	100
canada	406	3.94	27.83	67.24
chile	12	25	33.33	41.67
china	111	0.9	24.32	74.77
colombia	4	0	25	75
costa_rica	1	0	0	100
croatia	18	11.11	38.89	44.44
cyprus	8	0	37.5	62.5
czech_republic	52	3.85	46.15	50
denmark	47	2.13	23.4	74.47
dubai	2	0	0	100
egypt	2	0	0	100
estonia	2	50	0	50
finland	41	0	24.39	75.61
france	279	5.02	35.84	58.42
fyrom	2	0	50	50
germany	220	4.55	40.45	54.55
ghana	3	0	0	100
greece	23	4.35	21.74	73.91
hong_kong	120	5	24.17	70
hungary	5	20	40	40
iceland	1	0	0	100
india	48	16.67	4.17	79.17
indonesia	3	33.33	33.33	33.33
iran	1	0	0	100
ireland	27	11.11	40.74	44.44
israel	43	2.33	51.16	46.51
italy	133	5.26	33.08	60.15
ivory_coast	1	0	0	100
japan	116	3.45	42.24	54.31
kazakhstan	1	0	0	100
kuwait	1	0	0	100
latvia	6	16.67	0	83.33
lebanon	8	0	12.5	87.5
lithuania	20	10	10	80
luxembourg	6	16.67	33.33	50
malaysia	37	16.22	5.41	78.38
mexico	3	0	0	100
monaco	1	0	0	100
netherlands	146	4.11	32.19	61.64

new_zealand	73	2.74	26.03	71.23
nigeria	1	0	0	100
norway	20	0	45	55
palestine	1	0	0	100
philippines	5	20	60	20
poland	21	0	19.05	80.95
portugal	14	7.14	21.43	71.43
qatar	2	0	0	100
republic_of_croatia	1	0	100	0
republic_of_namibia	1	0	0	100
republic_of_serbia	1	0	100	0
romania	6	0	50	50
russia	4	0	25	75
saudi_arabia	1	0	0	100
serbia	1	0	100	0
singapore	92	4.35	30.43	65.22
slovakia	2	0	0	100
slovenia	8	0	25	75
south_africa	36	13.89	5.56	77.78
south_korea	59	3.39	13.56	83.05
spain	177	9.04	26.55	63.84
sudan	2	0	0	100
sweden	64	0	28.12	71.88
switzerland	149	8.72	30.2	60.4
taiwan	69	4.35	40.58	55.07
thailand	6	0	33.33	66.67
trinidad_and_tobago	1	0	100	0
tunisia	1	0	100	0
turkey	12	0	25	75
uganda	1	0	0	100
uk_england	707	7.64	28.01	63.51
uk_northern_ireland	17	17.65	11.76	70.59
uk_scotland	70	5.71	17.14	75.71
uk_wales	20	5	35	60
ukraine	4	50	0	50
united_arab_emirates	19	5.26	26.32	68.42
uruguay	1	0	0	100
usa	4028	6.21	31.55	61.44

Table 53 Country Tiers

Journal's Total Editors, Countries & Affiliations

Title	Editors	Total Countries	Total Affiliations
Journal of Finance	36	5	21
Review of Financial Studies	33	5	22
Journal of Financial Economics	37	1	20
Journal of Accounting and Economics	39	2	18

Journal of Management	307	21	173
Family Business Review	140	25	104
Journal of Accounting Research	47	2	24
Accounting Review	20	5	18
Journal of Monetary Economics	43	5	22
Journal of International Economics	52	10	41
Annual Review of Financial Economics	17	1	6
Review of Finance	53	16	39
Journal of Financial Markets	37	6	32
Finance and Stochastics	37	10	27
Journal of Financial and Quantitative Analysis	37	4	26
Contemporary Accounting Research	172	13	88
Journal of Public Economics	26	7	16
Journal of Risk and Uncertainty	41	7	34
Journal of Money Credit and Banking	78	10	55
Long Range Planning	78	20	61
Management Accounting Research	63	19	49
Journal of Financial Intermediation	49	5	33
Journal of International Management	76	17	58
Real Estate Economics	54	5	44
SIAM Journal on Financial Mathematics	28	9	23
European Economic Review	65	14	53
Mathematical Finance	46	9	38
Journal of World Business	190	33	137
Auditing	147	19	98
Games and Economic Behavior	84	11	56
International Review of Finance	56	12	41
Journal of Risk and Insurance	47	10	38
Journal of Corporate Finance	46	7	33
World Bank Economic Review	30	7	15
Foundations and Trends in Accounting	4	1	3
Journal of International Money and Finance	29	9	23
Journal of Financial Econometrics	50	14	34
Journal of Banking and Finance	99	20	84
Journal of Financial Stability	57	15	51
Financial Analysts Journal	52	9	39
Journal of Real Estate Finance and Economics	61	6	42
International Business Review	62	19	52
Critical Perspectives on Accounting	83	16	60
China Economic Review	58	11	45
ASTIN Bulletin	18	10	17
International Journal of Central Banking	7	4	7
Venture Capital	34	12	33
International Review of Economics and Finance	38	7	36
Technological and Economic Development of Economy	61	20	41
Journal of Empirical Finance	33	10	24
Journal of International Financial Markets Institutions and Money	65	24	61
Journal of the American Taxation Association	20	3	18

Mathematics and Financial Economics	38	10	28
Financial Management	38	11	34
American Law and Economics Review	16	1	12
International Tax and Public Finance	38	13	31
International Review of Environmental and Resource Economics	31	10	29
Journal of Business Finance and Accounting	72	14	53
Annals of Finance	53	10	39
International Journal of Accounting Information Systems	54	10	44
National Tax Journal	25	2	22
Journal of Corporate Real Estate	28	9	25
International Journal of Theoretical and Applied Finance	50	15	42
Economics Letters	48	8	39
Accounting Forum	59	7	42
International Journal of Accounting	64	19	54
Review of Financial Economics	43	6	39
North American Journal of Economics and Finance	22	2	20
Journal of Financial Counseling and Planning	43	7	30
Journal of Financial Services Research	53	10	39
Journal of Asian Economics	50	10	41
Quantitative Finance	69	15	55
Journal of Financial Research	56	7	39
Accounting and Finance	86	9	46
Applied Mathematical Finance	14	6	10
Pacific Basin Finance Journal	49	13	44
Geneva Papers on Risk and Insurance: Issues and Practice	33	10	29
Fiscal Studies	23	6	16
Journal of Futures Markets	21	5	19
Journal of European Real Estate Research	51	17	37
International Review of Financial Analysis	59	18	52
Asian Economic Papers	26	12	19
Annals of Economics and Finance	72	23	61
Journal of Public Economic Theory	50	14	40
International Journal of Finance and Economics	27	7	18
Japan and the World Economy	38	11	31
Financial Review	37	6	32
Journal of Accounting Auditing and Finance	32	6	24
Review of Quantitative Finance and Accounting	40	5	28
Quarterly Review of Economics and Finance	24	7	21
Journal of Portfolio Management	68	8	56
International Journal of Health Care Finance and Economics	23	13	19
World Economy	44	8	31
Investment Analysts Journal	18	6	14
Research in International Business and Finance	43	10	34
Public Budgeting and Finance	17	5	13
Journal of Revenue and Pricing Management	54	21	50
Economie Internationale	45	12	37
Journal of the Japanese and International Economies	28	4	16
GENEVA Risk and Insurance Review	40	10	31

Finance Research Letters	53	17	50
Journal of Education Finance	91	2	61
Journal of International Financial Management and Accounting	25	7	20
Emerging Markets Finance and Trade	38	15	37
International Review of Law and Economics	46	12	36
International Finance	29	6	24
Global Finance Journal	33	11	32
Journal of International Accounting Auditing and Taxation	52	7	40
Financial History Review	30	15	26
Applied Econometrics and International Development	24	8	23
Risk Management	49	10	39
Public Finance Review	22	9	22
WSEAS Transactions on Business and Economics	20	9	19
Accounting in Europe	64	16	57
International Journal of Digital Accounting Research	47	12	40
Journal of Property Investment and Finance	42	11	27
Asian Review of Accounting	37	10	29
Studies in Economics and Finance	38	13	35
Zbornik Radova Ekonomskog Fakultet au Rijeci	31	12	16
Journal of Pension Economics and Finance	64	15	49
Journal of Multinational Financial Management	44	17	39
Review of Derivatives Research	24	6	18
Journal of Financial Services Marketing	40	11	39
Journal of Economics and Finance	23	6	22
Prague Economic Papers	37	7	16
eJournal of Tax Research	20	5	12
International Journal of Sports Marketing and Sponsorship	47	17	42
Accounting Perspectives	42	6	24
Accounting Research Journal	37	5	22
FinanzArchiv	24	13	22
Finance a Uver	30	9	18
International Journal of Sport Finance	31	10	30
China Journal of Accounting Research	37	8	22
Financial Markets and Portfolio Management	20	4	17
Asia Pacific Journal of Financial Studies	51	8	34
Review of Pacific Basin Financial Markets and Policies	48	10	43
Financial Markets Institutions and Instruments	2	1	1
Research in Accounting Regulation	29	6	28
Asia Pacific Journal of Accounting and Economics	35	11	24
Zeitschrift für die gesamte Versicherungswissenschaft	18	4	17
Universia Business Review	15	3	13
Journal of Behavioral Finance	34	4	24
International Journal of Managerial Finance	41	11	38
Journal of Wealth Management	33	4	28
Journal of Internet Banking and Commerce	25	13	24
Investment Management and Financial Innovations	74	22	65
Journal of Emerging Market Finance	23	6	18
Banking Law Journal	24	1	23

International Journal of Monetary Economics and Finance	29	14	24
Afro Asian Journal of Finance and Accounting	41	17	38
Spanish Review of Financial Economics	25	7	21
Risk Management and Insurance Review	19	6	16
Comptabilite Controle Audit	6	1	6
Revista Espanola de Financiacion y Contabilidad	57	16	40
Indian Journal of Finance	17	6	12
Asia Pacific Financial Markets	34	10	25
Review of Development Finance	55	16	49
Journal of Public Budgeting Accounting and Financial Management	73	11	58
Review of Accounting and Finance	41	8	31
Journal of Derivatives	38	6	29
Economia Politica	38	10	31
Algorithmic Finance	19	2	18
Asian Academy of Management Journal of Accounting and Finance	24	9	20
African Finance Journal	42	12	35
Decisions in Economics and Finance	37	10	32
Journal of Alternative Investments	33	6	26
Journal of Behavioral and Experimental Finance	34	17	31
Journal of Banking Regulation	38	13	33
Academy of Accounting and Financial Studies Journal	34	5	31
International Journal of Business and Society	32	10	17
Journal of Fixed Income	27	3	19
International Journal of Disclosure and Governance	15	5	10
International Journal of Banking Accounting and Finance	42	15	37
Revue d'Etudes Comparatives Est Ouest	34	10	27
Finance and Development	38	1	6
International Journal of Accounting Auditing and Performance Evaluation	43	14	39
International Journal of Revenue Management	96	23	86
Hacienda Publica Espanola	22	3	16
International Research Journal of Finance and Economics	25	9	24
Journal of Business Valuation and Economic Loss Analysis	60	5	15
International Journal of Business	43	17	40
Economia Chilena	3	1	2
Macroeconomics and Finance in Emerging Market Economies	27	7	25
Risk Governance and Control: Financial Markets and Institutions	27	17	26
JASSA	15	2	12
Banking and Finance Review	13	2	12
Journal of Private Equity	24	4	23
Australasian Accounting, Business and Finance Journal	45	6	20
ATA Journal of Legal Tax Research	2	1	2
Real Estate Taxation	22	1	19
Journal of Taxation	29	1	29
International Insolvency Review	21	10	21

Table 54 Journal's Total Editors, Countries & Affiliations

Degree, Norm. Degree, Cluster, Norm.Cluster Triangles, Norm.Triangles

Ran k	Journal	degree	Norm.D eg	Cluster	Norm.Cl ust	Norm. triangles	Norm. Tr
42	journal_of_banking_and_finance	57	1	0.325	0.325	519	1
167	review_of_development_finance	55	0.965	0.296	0.296	440	0.848
81	pacific_basin_finance_journal	53	0.93	0.372	0.372	513	0.988
74	journal_of_financial_services_research	45	0.789	0.371	0.371	367	0.707
78	journal_of_financial_research	45	0.789	0.352	0.352	348	0.671
109	emerging_markets_finance_and_trade	45	0.789	0.347	0.347	344	0.663
151	international_journal_of_managerial_finance	45	0.789	0.357	0.357	353	0.68
25	journal_of_financial_intermediation	42	0.737	0.444	0.444	382	0.736
86	international_review_of_financial_analysis	42	0.737	0.409	0.409	352	0.678
43	journal_of_financial_stability	41	0.719	0.359	0.359	294	0.566
63	annals_of_finance	41	0.719	0.293	0.293	240	0.462
55	journal_of_international_financial_markets_instituti ons_and_money	40	0.702	0.426	0.426	332	0.64
182	journal_of_fixed_income	40	0.702	0.415	0.415	324	0.624
35	international_review_of_finance	39	0.684	0.420	0.42	311	0.599
52	international_review_of_economics_and_finance	39	0.684	0.343	0.343	254	0.489
71	review_of_financial_economics	39	0.684	0.347	0.347	257	0.495
94	review_of_quantitative_finance_and_accounting	39	0.684	0.337	0.337	250	0.482
127	journal_of_multinational_financial_management	38	0.667	0.380	0.38	267	0.514
3	journal_of_financial_economics	36	0.632	0.449	0.449	283	0.545
72	north_american_journal_of_economics_and_finance	36	0.632	0.529	0.529	333	0.642
22	journal_of_money_credit_and_banking	34	0.596	0.364	0.364	204	0.393
15	journal_of_financial_markets	33	0.579	0.521	0.521	275	0.53
17	journal_of_financial_and_quantitative_analysis	33	0.579	0.538	0.538	284	0.547
62	journal_of_business_finance_and_accounting	33	0.579	0.250	0.25	132	0.254
76	quantitative_finance	33	0.579	0.331	0.331	175	0.337
79	accounting_and_finance	33	0.579	0.273	0.273	144	0.277
170	journal_of_derivatives	33	0.579	0.362	0.362	191	0.368
37	journal_of_corporate_finance	32	0.561	0.474	0.474	235	0.453
14	review_of_finance	31	0.544	0.419	0.419	195	0.376
96	journal_of_portfolio_management	31	0.544	0.419	0.419	195	0.376
124	studies_in_economics_and_finance	31	0.544	0.353	0.353	164	0.316
128	review_of_derivatives_research	31	0.544	0.424	0.424	197	0.38
18	contemporary_accounting_research	29	0.509	0.296	0.296	120	0.231
54	journal_of_empirical_finance	29	0.509	0.559	0.559	227	0.437
58	financial_management	28	0.491	0.556	0.556	210	0.405
91	japan_and_the_world_economy	27	0.474	0.370	0.37	130	0.25
106	finance_research_letters	27	0.474	0.407	0.407	143	0.276
108	journal_of_international_financial_management_an d_accounting	26	0.456	0.425	0.425	138	0.266
2	review_of_financial_studies	25	0.439	0.540	0.54	162	0.312
88	annals_of_economics_and_finance	25	0.439	0.463	0.463	139	0.268
142	asia_pacific_journal_of_financial_studies	25	0.439	0.437	0.437	131	0.252
155	investment_management_and_financial_innovations	25	0.439	0.380	0.38	114	0.22
175	african_finance_journal	25	0.439	0.410	0.41	123	0.237

184	international_journal_of_banking_accounting_and_finance	25	0.439	0.357	0.357	107	0.206
95	quarterly_review_of_economics_and_finance	24	0.421	0.399	0.399	110	0.212
112	global_finance_journal	24	0.421	0.547	0.547	151	0.291
135	accounting_research_journal	24	0.421	0.322	0.322	89	0.171
195	international_journal_of_business	24	0.421	0.424	0.424	117	0.225
1	journal_of_finance	23	0.404	0.510	0.51	129	0.249
44	financial_analysts_journal	22	0.386	0.368	0.368	85	0.164
33	auditing	21	0.368	0.386	0.386	81	0.156
119	accounting_in_europe	21	0.368	0.443	0.443	93	0.179
36	journal_of_risk_and_insurance	20	0.351	0.389	0.389	74	0.143
41	journal_of_financial_econometrics	20	0.351	0.632	0.632	120	0.231
70	international_journal_of_accounting	20	0.351	0.432	0.432	82	0.158
90	international_journal_of_finance_and_economics	20	0.351	0.379	0.379	72	0.139
92	financial_review	20	0.351	0.605	0.605	115	0.222
140	financial_markets_and_portfolio_management	20	0.351	0.637	0.637	121	0.233
40	journal_of_international_money_and_finance	19	0.333	0.351	0.351	60	0.116
67	international_journal_of_theoretical_and_applied_finance	19	0.333	0.456	0.456	78	0.15
32	journal_of_world_business	18	0.316	0.229	0.229	35	0.067
111	international_finance	18	0.316	0.340	0.34	52	0.1
143	review_of_pacific_basin_financial_markets_and_policies	18	0.316	0.386	0.386	59	0.114
156	journal_of_emerging_market_finance	18	0.316	0.562	0.562	86	0.166
177	journal_of_alternative_investments	18	0.316	0.431	0.431	66	0.127
69	accounting_forum	17	0.298	0.353	0.353	48	0.092
123	asian_review_of_accounting	17	0.298	0.309	0.309	42	0.081
126	journal_of_pension_economics_and_finance	17	0.298	0.235	0.235	32	0.062
93	journal_of_accounting_auditing_and_finance	16	0.281	0.500	0.5	60	0.116
100	research_in_international_business_and_finance	16	0.281	0.533	0.533	64	0.123
147	asia_pacific_journal_of_accounting_and_economics	16	0.281	0.400	0.4	48	0.092
13	annual_review_of_financial_economics	15	0.263	0.638	0.638	67	0.129
20	journal_of_risk_and_uncertainty	15	0.263	0.238	0.238	25	0.048
24	management_accounting_research	15	0.263	0.352	0.352	37	0.071
31	mathematical_finance	15	0.263	0.571	0.571	60	0.116
57	mathematics_and_financial_economics	15	0.263	0.362	0.362	38	0.073
158	international_journal_of_monetary_economics_and_finance	15	0.263	0.343	0.343	36	0.069
178	journal_of_behavioral_and_experimental_finance	15	0.263	0.476	0.476	50	0.096
187	international_journal_of_accounting_auditing_and_performance_evaluation	15	0.263	0.429	0.429	45	0.087
27	real_estate_economics	14	0.246	0.637	0.637	58	0.112
60	international_tax_and_public_finance	14	0.246	0.264	0.264	24	0.046
68	economics_letters	14	0.246	0.286	0.286	26	0.05
150	journal_of_behavioral_finance	14	0.246	0.451	0.451	41	0.079
34	games_and_economic_behavior	13	0.228	0.295	0.295	23	0.044
64	international_journal_of_accounting_information_systems	13	0.228	0.436	0.436	34	0.066
105	geneva_risk_and_insurance_review	13	0.228	0.308	0.308	24	0.046
113	journal_of_international_accounting_auditing_and_t	13	0.228	0.308	0.308	24	0.046

axation							
164	revista_espanola_de_financiacion_y_contabilidad	13	0.228	0.410	0.41	32	0.062
4	journal_of_accounting_and_economics	12	0.211	0.394	0.394	26	0.05
7	journal_of_accounting_research	12	0.211	0.409	0.409	27	0.052
46	international_business_review	12	0.211	0.227	0.227	15	0.029
51	venture_capital	12	0.211	0.515	0.515	34	0.066
84	journal_of_futures_markets	12	0.211	0.515	0.515	34	0.066
89	journal_of_public_economic_theory	12	0.211	0.303	0.303	20	0.039
139	china_journal_of_accounting_research	12	0.211	0.636	0.636	42	0.081
159	afro_asian_journal_of_finance_and_accounting	12	0.211	0.212	0.212	14	0.027
172	algorithmic_finance	12	0.211	0.485	0.485	32	0.062
45	journal_of_real_estate_finance_and_economics	11	0.193	0.364	0.364	20	0.039
47	critical_perspectives_on_accounting	11	0.193	0.545	0.545	30	0.058
75	journal_of_asian_economics	11	0.193	0.382	0.382	21	0.04
104	journal_of_the_japanese_and_international_economics	11	0.193	0.455	0.455	25	0.048
130	journal_of_economics_and_finance	11	0.193	0.400	0.4	22	0.042
10	accounting_review	10	0.175	0.667	0.667	30	0.058
11	journal_of_monetary_economics	10	0.175	0.467	0.467	21	0.04
16	finance_and_stochastics	10	0.175	0.578	0.578	26	0.05
19	journal_of_public_economics	10	0.175	0.356	0.356	16	0.031
28	siam_journal_on_financial_mathematics	10	0.175	0.644	0.644	29	0.056
65	national_tax_journal	10	0.175	0.378	0.378	17	0.033
83	fiscal_studies	10	0.175	0.489	0.489	22	0.042
98	world_economy	10	0.175	0.378	0.378	17	0.033
134	accounting_perspectives	10	0.175	0.511	0.511	23	0.044
137	finance_a_uver	10	0.175	0.511	0.511	23	0.044
152	journal_of_wealth_management	10	0.175	0.356	0.356	16	0.031
199	risk_governance_and_control_financial_markets_and_institutions	10	0.175	0.733	0.733	33	0.064
6	family_business_review	9	0.158	0.278	0.278	10	0.019
12	journal_of_international_economics	9	0.158	0.278	0.278	10	0.019
30	european_economic_review	9	0.158	0.250	0.25	9	0.017
166	asia_pacific_financial_markets	9	0.158	0.639	0.639	23	0.044
171	economia_politica	9	0.158	0.306	0.306	11	0.021
176	decisions_in_economics_and_finance	9	0.158	0.306	0.306	11	0.021
192	journal_of_business_valuation_and_economic_loss_analysis	9	0.158	0.250	0.25	9	0.017
198	macroeconomics_and_finance_in_emerging_market_economies	9	0.158	0.361	0.361	13	0.025
203	banking_and_finance_review	9	0.158	0.361	0.361	13	0.025
26	journal_of_international_management	8	0.14	0.321	0.321	9	0.017
38	world_bank_economic_review	8	0.14	0.464	0.464	13	0.025
162	risk_management_and_insurance_review	8	0.14	0.357	0.357	10	0.019
202	jassa	8	0.14	0.429	0.429	12	0.023
5	journal_of_management	7	0.123	0.333	0.333	7	0.013
82	geneva_papers_on_risk_and_insurance_issues_and_practice	7	0.123	0.571	0.571	12	0.023
103	economie_internationale	7	0.123	0.524	0.524	11	0.021
117	public_finance_review	7	0.123	0.619	0.619	13	0.025

120	international_journal_of_digital_accounting_research	7	0.123	0.381	0.381	8	0.015
146	research_in_accounting_regulation	7	0.123	0.429	0.429	9	0.017
179	journal_of_banking_regulation	7	0.123	0.667	0.667	14	0.027
48	china_economic_review	6	0.105	0.267	0.267	4	0.008
50	international_journal_of_central_banking	6	0.105	0.600	0.6	9	0.017
132	ejournal_of_tax_research	6	0.105	0.667	0.667	10	0.019
23	longe_range_planning	5	0.088	0.700	0.7	7	0.013
61	international_review_of_environmental_and_resource_economics	5	0.088	0.600	0.6	6	0.012
80	applied_mathematical_finance	5	0.088	0.900	0.9	9	0.017
122	journal_of_property_investment_and_finance	5	0.088	0.300	0.3	3	0.006
125	zbornik_radova_ekonomskog_fakulteta_au_rijeci	5	0.088	0.500	0.5	5	0.01
136	finanzarchiv	5	0.088	1.000	1	10	0.019
145	financial_markets_institutions_and_instruments	5	0.088	1.000	1	10	0.019
160	spanish_review_of_financial_economics	5	0.088	0.200	0.2	2	0.004
168	journal_of_public_budgeting_accounting_and_financial_management	5	0.088	0.400	0.4	4	0.008
169	review_of_accounting_and_finance	5	0.088	0.700	0.7	7	0.013
183	international_journal_of_disclosure_and_governance	5	0.088	0.600	0.6	6	0.012
188	international_journal_of_revenue_management	5	0.088	0.600	0.6	6	0.012
205	journal_of_private_equity	5	0.088	0.400	0.4	4	0.008
85	journal_of_european_real_estate_research	4	0.07	0.500	0.5	3	0.006
87	asian_economic_papers	4	0.07	0.500	0.5	3	0.006
110	international_review_of_law_and_economics	4	0.07	0.000	0	0	0
116	risk_management	4	0.07	0.500	0.5	3	0.006
131	prague_economic_papers	4	0.07	0.500	0.5	3	0.006
173	asian_academy_of_management_journal_of_accounting_and_finance	4	0.07	0.500	0.5	3	0.006
206	australasian_accounting_business_and_finance_journal	4	0.07	0.167	0.167	1	0.002
39	foundations_and_trends_in_accounting	3	0.053	0.667	0.667	2	0.004
56	journal_of_the_american_taxation_association	3	0.053	0.667	0.667	2	0.004
114	financial_history_review	3	0.053	0.333	0.333	1	0.002
115	applied_econometrics_and_international_development	3	0.053	0.000	0	0	0
189	hacienda_publica_espanola	3	0.053	0.667	0.667	2	0.004
190	international_research_journal_of_finance_and_economics	3	0.053	0.333	0.333	1	0.002
66	journal_of_corporate_real_estate	2	0.035	1.000	1	1	0.002
97	international_journal_of_health_care_finance_and_economics	2	0.035	0.000	0	0	0
99	investment_analysts_journal	2	0.035	0.000	0	0	0
101	public_budgeting_and_finance	2	0.035	0.000	0	0	0
129	journal_of_financial_services_marketing	2	0.035	0.000	0	0	0
133	international_journal_of_sports_marketing_and_sponsorship	2	0.035	0.000	0	0	0
148	zeitschrift_für_die_gesamte_versicherungswissenschaft	2	0.035	0.000	0	0	0
149	universia_business_review	2	0.035	0.000	0	0	0

154	journal_of_internet_banking_and_commerce	2	0.035	0.000	0	0	0
49	astin_bulletin	1	0.018	0.000	0	0	0
59	american_law_and_economics_review	1	0.018	0.000	0	0	0
73	journal_of_financial_counseling_and_planning	1	0.018	0.000	0	0	0
102	journal_of_revenue_and_pricing_management	1	0.018	0.000	0	0	0
118	wseas_transactions_on_business_and_economics	1	0.018	0.000	0	0	0
138	international_journal_of_sport_finance	1	0.018	0.000	0	0	0
180	academy_of_accounting_and_financial_studies_journal	1	0.018	0.000	0	0	0
181	international_journal_of_business_and_society	1	0.018	0.000	0	0	0
208	real_estate_taxation	1	0.018	0.000	0	0	0
210	journal_of_taxation	1	0.018	0.000	0	0	0
53	technological_and_economic_development_of_economy	0	0	0.000	0	0	0
107	journal_of_education_finance	0	0	0.000	0	0	0
157	banking_law_journal	0	0	0.000	0	0	0
163	comptabilite_controle_audit	0	0	0.000	0	0	0
165	indian_journal_of_finance	0	0	0.000	0	0	0
185	revue_d.etudes_comparatives_est_ouest	0	0	0.000	0	0	0
186	finance_and_development	0	0	0.000	0	0	0
197	economia_chilena	0	0	0.000	0	0	0
207	ata_journal_of_legal_tax_research	0	0	0.000	0	0	0
212	international_insolvency_review	0	0	0.000	0	0	0

Table 55 Degree, Norm. Degree, Cluster, Norm.Cluster Triangles, Norm.Triangles

Closeness Norm.Closeness, Harmonic, Norm.Harmonic

Rank	Journal	Closeness	Norm.Closeness	Harmonic	Norm.Harmonic
42	journal_of_banking_and_finance	0.539	0.539	0.631	0.631
167	review_of_development_finance	0.544	0.544	0.630	0.63
81	pacific_basin_finance_journal	0.533	0.533	0.621	0.621
74	journal_of_financial_services_research	0.504	0.504	0.588	0.588
78	journal_of_financial_research	0.516	0.516	0.595	0.595
109	emerging_markets_finance_and_trade	0.519	0.519	0.597	0.597
151	international_journal_of_managerial_finance	0.522	0.522	0.599	0.599
25	journal_of_financial_intermediation	0.493	0.493	0.575	0.575
86	international_review_of_financial_analysis	0.506	0.506	0.584	0.584
43	journal_of_financial_stability	0.493	0.493	0.574	0.574
63	annals_of_finance	0.489	0.489	0.571	0.571
55	journal_of_international_financial_markets_institutio	0.492	0.492	0.572	0.572

	ns_and_money				
182	journal_of_fixed_income	0.492	0.492	0.571	0.571
35	international_review_of_finance	0.511	0.511	0.581	0.581
52	international_review_of_economics_and_finance	0.497	0.497	0.573	0.573
71	review_of_financial_economics	0.496	0.496	0.571	0.571
94	review_of_quantitative_finance_and_accounting	0.503	0.503	0.576	0.576
127	journal_of_multinational_financial_management	0.479	0.479	0.559	0.559
3	journal_of_financial_economics	0.474	0.474	0.551	0.551
72	north_american_journal_of_economics_and_finance	0.492	0.492	0.564	0.564
22	journal_of_money_credit_and_banking	0.484	0.484	0.554	0.554
15	journal_of_financial_markets	0.469	0.469	0.541	0.541
17	journal_of_financial_and_quantitative_analysis	0.464	0.464	0.539	0.539
62	journal_of_business_finance_and_accounting	0.485	0.485	0.554	0.554
76	quantitative_finance	0.466	0.466	0.541	0.541
79	accounting_and_finance	0.474	0.474	0.545	0.545
170	journal_of_derivatives	0.481	0.481	0.551	0.551
37	journal_of_corporate_finance	0.490	0.49	0.554	0.554
14	review_of_finance	0.480	0.48	0.545	0.545
96	journal_of_portfolio_management	0.481	0.481	0.546	0.546
124	studies_in_economics_and_finance	0.482	0.482	0.548	0.548
128	review_of_derivatives_research	0.460	0.46	0.532	0.532
18	contemporary_accounting_research	0.443	0.443	0.515	0.515
54	journal_of_empirical_finance	0.465	0.465	0.532	0.532
58	financial_management	0.476	0.476	0.537	0.537
91	japan_and_the_world_economy	0.452	0.452	0.519	0.519
106	finance_research_letters	0.464	0.464	0.528	0.528
108	journal_of_international_financial_management_and_accounting	0.467	0.467	0.529	0.529
2	review_of_financial_studies	0.474	0.474	0.530	0.53
88	annals_of_economics_and_finance	0.451	0.451	0.514	0.514
142	asia_pacific_journal_of_financial_studies	0.469	0.469	0.527	0.527
155	investment_management_and_financial_innovations	0.470	0.47	0.528	0.528
175	african_finance_journal	0.460	0.46	0.520	0.52
184	international_journal_of_banking_accounting_and_finance	0.475	0.475	0.531	0.531
95	quarterly_review_of_economics_and_finance	0.486	0.486	0.537	0.537
112	global_finance_journal	0.451	0.451	0.513	0.513
135	accounting_research_journal	0.446	0.446	0.508	0.508
195	international_journal_of_business	0.454	0.454	0.516	0.516
1	journal_of_finance	0.445	0.445	0.506	0.506
44	financial_analysts_journal	0.459	0.459	0.514	0.514
33	auditing	0.399	0.399	0.462	0.462
119	accounting_in_europe	0.400	0.4	0.464	0.464
36	journal_of_risk_and_insurance	0.439	0.439	0.495	0.495
41	journal_of_financial_econometrics	0.439	0.439	0.494	0.494
70	international_journal_of_accounting	0.409	0.409	0.469	0.469
90	international_journal_of_finance_and_economics	0.438	0.438	0.493	0.493
92	financial_review	0.439	0.439	0.494	0.494
140	financial_markets_and_portfolio_management	0.443	0.443	0.498	0.498

40	journal_of_international_money_and_finance	0.454	0.454	0.505	0.505
67	international_journal_of_theoretical_and_applied_finance	0.438	0.438	0.491	0.491
32	journal_of_world_business	0.442	0.442	0.493	0.493
111	international_finance	0.437	0.437	0.489	0.489
143	review_of_pacific_basin_financial_markets_and_policies	0.445	0.445	0.496	0.496
156	journal_of_emerging_market_finance	0.441	0.441	0.492	0.492
177	journal_of_alternative_investments	0.444	0.444	0.495	0.495
69	accounting_forum	0.412	0.412	0.468	0.468
123	asian_review_of_accounting	0.415	0.415	0.469	0.469
126	journal_of_pension_economics_and_finance	0.422	0.422	0.477	0.477
93	journal_of_accounting_auditing_and_finance	0.418	0.418	0.470	0.47
100	research_in_international_business_and_finance	0.429	0.429	0.480	0.48
147	asia_pacific_journal_of_accounting_and_economics	0.394	0.394	0.448	0.448
13	annual_review_of_financial_economics	0.420	0.42	0.470	0.47
20	journal_of_risk_and_uncertainty	0.394	0.394	0.448	0.448
24	management_accounting_research	0.412	0.412	0.464	0.464
31	mathematical_finance	0.410	0.41	0.461	0.461
57	mathematics_and_financial_economics	0.397	0.397	0.451	0.451
158	international_journal_of_monetary_economics_and_finance	0.439	0.439	0.484	0.484
178	journal_of_behavioral_and_experimental_finance	0.424	0.424	0.471	0.471
187	international_journal_of_accounting_auditing_and_performance_evaluation	0.407	0.407	0.456	0.456
27	real_estate_economics	0.416	0.416	0.465	0.465
60	international_tax_and_public_finance	0.400	0.4	0.450	0.45
68	economics_letters	0.406	0.406	0.457	0.457
150	journal_of_behavioral_finance	0.432	0.432	0.477	0.477
34	games_and_economic_behavior	0.398	0.398	0.450	0.45
64	international_journal_of_accounting_information_systems	0.388	0.388	0.436	0.436
105	geneva_risk_and_insurance_review	0.397	0.397	0.446	0.446
113	journal_of_international_accounting_auditing_and_taxation	0.384	0.384	0.436	0.436
164	revista_espanola_de_financiacion_y_contabilidad	0.378	0.378	0.427	0.427
4	journal_of_accounting_and_economics	0.420	0.42	0.464	0.464
7	journal_of_accounting_research	0.414	0.414	0.458	0.458
46	international_business_review	0.389	0.389	0.437	0.437
51	venture_capital	0.423	0.423	0.466	0.466
84	journal_of_futures_markets	0.427	0.427	0.470	0.47
89	journal_of_public_economic_theory	0.403	0.403	0.447	0.447
139	china_journal_of_accounting_research	0.387	0.387	0.432	0.432
159	afro_asian_journal_of_finance_and_accounting	0.411	0.411	0.457	0.457
172	algorithmic_finance	0.411	0.411	0.455	0.455
45	journal_of_real_estate_finance_and_economics	0.404	0.404	0.448	0.448
47	critical_perspectives_on_accounting	0.362	0.362	0.408	0.408
75	journal_of_asian_economics	0.414	0.414	0.457	0.457
104	journal_of_the_japanese_and_international_economies	0.401	0.401	0.448	0.448

130	journal_of_economics_and_finance	0.412	0.412	0.455	0.455
10	accounting_review	0.371	0.371	0.413	0.413
11	journal_of_monetary_economics	0.397	0.397	0.439	0.439
16	finance_and_stochastics	0.373	0.373	0.416	0.416
19	journal_of_public_economics	0.357	0.357	0.400	0.4
28	siam_journal_on_financial_mathematics	0.404	0.404	0.446	0.446
65	national_tax_journal	0.387	0.387	0.428	0.428
83	fiscal_studies	0.343	0.343	0.382	0.382
98	world_economy	0.401	0.401	0.442	0.442
134	accounting_perspectives	0.388	0.388	0.429	0.429
137	finance_a_uver	0.400	0.4	0.442	0.442
152	journal_of_wealth_management	0.409	0.409	0.451	0.451
199	risk_governance_and_control_financial_markets_and_institutions	0.406	0.406	0.448	0.448
6	family_business_review	0.391	0.391	0.432	0.432
12	journal_of_international_economics	0.374	0.374	0.416	0.416
30	european_economic_review	0.383	0.383	0.428	0.428
166	asia_pacific_financial_markets	0.385	0.385	0.426	0.426
171	economia_politica	0.393	0.393	0.435	0.435
176	decisions_in_economics_and_finance	0.375	0.375	0.418	0.418
192	journal_of_business_valuation_and_economic_loss_analysis	0.407	0.407	0.445	0.445
198	macroeconomics_and_finance_in_emerging_market_economies	0.405	0.405	0.446	0.446
203	banking_and_finance_review	0.414	0.414	0.454	0.454
26	journal_of_international_management	0.400	0.4	0.438	0.438
38	world_bank_economic_review	0.400	0.4	0.439	0.439
162	risk_management_and_insurance_review	0.376	0.376	0.416	0.416
202	jassa	0.398	0.398	0.438	0.438
5	journal_of_management	0.345	0.345	0.379	0.379
82	geneva_papers_on_risk_and_insurance_issues_and_practice	0.369	0.369	0.408	0.408
103	economie_internationale	0.376	0.376	0.415	0.415
117	public_finance_review	0.319	0.319	0.351	0.351
120	international_journal_of_digital_accounting_research	0.341	0.341	0.378	0.378
146	research_in_accounting_regulation	0.338	0.338	0.377	0.377
179	journal_of_banking_regulation	0.400	0.4	0.437	0.437
48	china_economic_review	0.387	0.387	0.422	0.422
50	international_journal_of_central_banking	0.386	0.386	0.422	0.422
132	ejournal_of_tax_research	0.311	0.311	0.339	0.339
23	longe_range_planning	0.350	0.35	0.383	0.383
61	international_review_of_environmental_and_resource_economics	0.342	0.342	0.379	0.379
80	applied_mathematical_finance	0.336	0.336	0.367	0.367
122	journal_of_property_investment_and_finance	0.321	0.321	0.349	0.349
125	zbornik_radova_ekonomskog_fakultet_au_rijeci	0.375	0.375	0.409	0.409
136	finanzarchiv	0.308	0.308	0.334	0.334
145	financial_markets_institutions_and_instruments	0.380	0.38	0.415	0.415
160	spanish_review_of_financial_economics	0.391	0.391	0.423	0.423
168	journal_of_public_budgeting_accounting_and_finance	0.311	0.311	0.345	0.345

	al_management				
169	review_of_accounting_and_finance	0.376	0.376	0.409	0.409
183	international_journal_of_disclosure_and_governance	0.349	0.349	0.380	0.38
188	international_journal_of_revenue_management	0.350	0.35	0.383	0.383
205	journal_of_private_equity	0.377	0.377	0.408	0.408
85	journal_of_european_real_estate_research	0.308	0.308	0.333	0.333
87	asian_economic_papers	0.341	0.341	0.370	0.37
110	international_review_of_law_and_economics	0.352	0.352	0.384	0.384
116	risk_management	0.316	0.316	0.344	0.344
131	prague_economic_papers	0.360	0.36	0.391	0.391
173	asian_academy_of_management_journal_of_accounting_and_finance	0.367	0.367	0.399	0.399
206	australasian_accounting_business_and_finance_journal	0.311	0.311	0.341	0.341
39	foundations_and_trends_in_accounting	0.348	0.348	0.373	0.373
56	journal_of_the_american_taxation_association	0.316	0.316	0.345	0.345
114	financial_history_review	0.349	0.349	0.378	0.378
115	applied_econometrics_and_international_development	0.280	0.28	0.301	0.301
189	hacienda_publica_espanola	0.267	0.267	0.291	0.291
190	international_research_journal_of_finance_and_economics	0.360	0.36	0.388	0.388
66	journal_of_corporate_real_estate	0.250	0.25	0.266	0.266
97	international_journal_of_health_care_finance_and_economics	0.284	0.284	0.306	0.306
99	investment_analysts_journal	0.343	0.343	0.369	0.369
101	public_budgeting_and_finance	0.244	0.244	0.262	0.262
129	journal_of_financial_services_marketing	0.341	0.341	0.367	0.367
133	international_journal_of_sports_marketing_and_sponsorship	0.308	0.308	0.328	0.328
148	zeitschrift_für_die_gesamte_versicherungswissenschaft	0.307	0.307	0.328	0.328
149	universia_business_review	0.298	0.298	0.316	0.316
154	journal_of_internet_banking_and_commerce	0.321	0.321	0.344	0.344
49	astin_bulletin	0.305	0.305	0.324	0.324
59	american_law_and_economics_review	0.261	0.261	0.275	0.275
73	journal_of_financial_counseling_and_planning	0.336	0.336	0.359	0.359
102	journal_of_revenue_and_pricing_management	0.260	0.26	0.274	0.274
118	wseas_transactions_on_business_and_economics	0.273	0.273	0.290	0.29
138	international_journal_of_sport_finance	0.236	0.236	0.246	0.246
180	academy_of_accounting_and_financial_studies_journal	0.290	0.29	0.304	0.304
181	international_journal_of_business_and_society	0.282	0.282	0.298	0.298
208	real_estate_taxation	1.000	1	1.000	1
210	journal_of_taxation	1.000	1	1.000	1
53	technological_and_economic_development_of_economy	0.000	0	0.000	0
107	journal_of_education_finance	0.000	0	0.000	0
157	banking_law_journal	0.000	0	0.000	0
163	comptabilite_controle_audit	0.000	0	0.000	0
165	indian_journal_of_finance	0.000	0	0.000	0

185	revue_d.etudes_comparatives_est_ouest	0.000	0	0.000	0
186	finance_and_development	0.000	0	0.000	0
197	economia_chilena	0.000	0	0.000	0
207	ata_journal_of_legal_tax_research	0.000	0	0.000	0
212	international_insolvency_review	0.000	0	0.000	0

Table 56 Closeness Norm.Closeness, Harmonic, Norm.Harmonic

Betweenness, Norm.Betweenness, Eigenvector, Norm.Eigenvector

Rank	Journal	Between ess	Norm.Be tw	Eigenvect or	Norm.E ig
42	journal_of_banking_and_finance	895.631	0.865	1.0000	1
167	review_of_development_finance	1035.296	1	0.9272	0.927
81	pacific_basin_finance_journal	553.397	0.535	0.9953	0.995
74	journal_of_financial_services_research	571.045	0.552	0.8344	0.834
78	journal_of_financial_research	332.676	0.321	0.8290	0.829
109	emerging_markets_finance_and_trade	645.019	0.623	0.8100	0.81
151	international_journal_of_managerial_finance	531.639	0.514	0.8224	0.822
25	journal_of_financial_intermediation	400.608	0.387	0.8385	0.838
86	international_review_of_financial_analysis	322.858	0.312	0.7941	0.794
43	journal_of_financial_stability	317.738	0.307	0.7234	0.723
63	annals_of_finance	584.265	0.564	0.6374	0.637
55	journal_of_international_financial_markets_institutions_and _money	360.465	0.348	0.7898	0.79
182	journal_of_fixed_income	227.070	0.219	0.7720	0.772
35	international_review_of_finance	232.762	0.225	0.7714	0.771
52	international_review_of_economics_and_finance	371.258	0.359	0.6952	0.695
71	review_of_financial_economics	340.517	0.329	0.7025	0.702
94	review_of_quantitative_finance_and_accounting	422.165	0.408	0.6855	0.685
127	journal_of_multinational_financial_management	253.324	0.245	0.6974	0.697
3	journal_of_financial_economics	205.568	0.199	0.7255	0.725
72	north_american_journal_of_economics_and_finance	107.410	0.104	0.7857	0.786
22	journal_of_money_credit_and_banking	233.302	0.225	0.5994	0.599
15	journal_of_financial_markets	78.810	0.076	0.7071	0.707
17	journal_of_financial_and_quantitative_analysis	49.498	0.048	0.7081	0.708
62	journal_of_business_finance_and_accounting	831.885	0.804	0.4125	0.413
76	quantitative_finance	412.301	0.398	0.4918	0.492
79	accounting_and_finance	633.085	0.612	0.3725	0.373
170	journal_of_derivatives	249.840	0.241	0.5744	0.574
37	journal_of_corporate_finance	151.935	0.147	0.6639	0.664
14	review_of_finance	251.743	0.243	0.5934	0.593
96	journal_of_portfolio_management	177.363	0.171	0.5781	0.578
124	studies_in_economics_and_finance	330.825	0.32	0.5422	0.542
128	review_of_derivatives_research	102.383	0.099	0.5581	0.558
18	contemporary_accounting_research	557.934	0.539	0.1881	0.188
54	journal_of_empirical_finance	34.792	0.034	0.6529	0.653
58	financial_management	51.802	0.05	0.6230	0.623
91	japan_and_the_world_economy	245.201	0.237	0.4673	0.467
106	finance_research_letters	195.118	0.188	0.4710	0.471
108	journal_of_international_financial_management_and_accou	195.885	0.189	0.4881	0.488

	nting				
2	review_of_financial_studies	68.653	0.066	0.5459	0.546
88	annals_of_economics_and_finance	67.119	0.065	0.4748	0.475
142	asia_pacific_journal_of_financial_studies	137.541	0.133	0.5004	0.5
155	investment_management_and_financial_innovations	186.083	0.18	0.4612	0.461
175	african_finance_journal	124.634	0.12	0.4723	0.472
184	international_journal_of_banking_accounting_and_finance	286.699	0.277	0.4238	0.424
95	quarterly_review_of_economics_and_finance	242.121	0.234	0.4443	0.444
112	global_finance_journal	33.969	0.033	0.5113	0.511
135	accounting_research_journal	221.185	0.214	0.2902	0.29
195	international_journal_of_business	214.956	0.208	0.4521	0.452
1	journal_of_finance	57.976	0.056	0.4634	0.463
44	financial_analysts_journal	200.792	0.194	0.3878	0.388
33	auditing	180.444	0.174	0.1223	0.122
119	accounting_in_europe	102.378	0.099	0.1296	0.13
36	journal_of_risk_and_insurance	450.082	0.435	0.3051	0.305
41	journal_of_financial_econometrics	13.254	0.013	0.4384	0.438
70	international_journal_of_accounting	101.548	0.098	0.1548	0.155
90	international_journal_of_finance_and_economics	89.644	0.087	0.3041	0.304
92	financial_review	19.020	0.018	0.4609	0.461
140	financial_markets_and_portfolio_management	32.218	0.031	0.4469	0.447
40	journal_of_international_money_and_finance	126.792	0.122	0.3212	0.321
67	international_journal_of_theoretical_and_applied_finance	105.038	0.101	0.2909	0.291
32	journal_of_world_business	541.296	0.523	0.1958	0.196
111	international_finance	147.969	0.143	0.2404	0.24
143	review_of_pacific_basin_financial_markets_and_policies	79.365	0.077	0.3089	0.309
156	journal_of_emerging_market_finance	20.483	0.02	0.4024	0.402
177	journal_of_alternative_investments	68.637	0.066	0.3340	0.334
69	accounting_forum	267.804	0.259	0.1383	0.138
123	asian_review_of_accounting	290.879	0.281	0.1290	0.129
126	journal_of_pension_economics_and_finance	286.836	0.277	0.1475	0.148
93	journal_of_accounting_auditing_and_finance	43.316	0.042	0.1423	0.142
100	research_in_international_business_and_finance	35.874	0.035	0.2840	0.284
147	asia_pacific_journal_of_accounting_and_economics	127.260	0.123	0.0956	0.096
13	annual_review_of_financial_economics	7.149	0.007	0.2941	0.294
20	journal_of_risk_and_uncertainty	337.719	0.326	0.1143	0.114
24	management_accounting_research	117.231	0.113	0.1336	0.134
31	mathematical_finance	31.480	0.03	0.2225	0.222
57	mathematics_and_financial_economics	75.953	0.073	0.1682	0.168
158	international_journal_of_monetary_economics_and_finance	67.654	0.065	0.2348	0.235
178	journal_of_behavioral_and_experimental_finance	41.381	0.04	0.2648	0.265
187	international_journal_of_accounting_auditing_and_performance_evaluation	70.050	0.068	0.1106	0.111
27	real_estate_economics	157.760	0.152	0.2931	0.293
60	international_tax_and_public_finance	345.447	0.334	0.0717	0.072
68	economics_letters	87.539	0.085	0.1385	0.139
150	journal_of_behavioral_finance	80.319	0.078	0.2519	0.252
34	games_and_economic_behavior	100.219	0.097	0.1009	0.101
64	international_journal_of_accounting_information_systems	59.782	0.058	0.0862	0.086

105	geneva_risk_and_insurance_review	123.365	0.119	0.1215	0.121
113	journal_of_international_accounting_auditing_and_taxation	126.343	0.122	0.0780	0.078
164	revista_espanola_de_financiacion_y_contabilidad	75.967	0.073	0.0775	0.078
4	journal_of_accounting_and_economics	74.748	0.072	0.1361	0.136
7	journal_of_accounting_research	71.813	0.069	0.1316	0.132
46	international_business_review	138.644	0.134	0.0916	0.092
51	venture_capital	34.481	0.033	0.1993	0.199
84	journal_of_futures_markets	19.993	0.019	0.2471	0.247
89	journal_of_public_economic_theory	147.165	0.142	0.0733	0.073
139	china_journal_of_accounting_research	14.520	0.014	0.0936	0.094
159	afro_asian_journal_of_finance_and_accounting	52.857	0.051	0.1468	0.147
172	algorithmic_finance	41.310	0.04	0.1922	0.192
45	journal_of_real_estate_finance_and_economics	242.332	0.234	0.1755	0.175
47	critical_perspectives_on_accounting	63.374	0.061	0.0626	0.063
75	journal_of_asian_economics	36.824	0.036	0.1686	0.169
104	journal_of_the_japanese_and_international_economies	36.462	0.035	0.1640	0.164
130	journal_of_economics_and_finance	63.541	0.061	0.1683	0.168
10	accounting_review	11.914	0.012	0.0681	0.068
11	journal_of_monetary_economics	24.071	0.023	0.1724	0.172
16	finance_and_stochastics	19.584	0.019	0.1003	0.1
19	journal_of_public_economics	130.505	0.126	0.0367	0.037
28	siam_journal_on_financial_mathematics	21.720	0.021	0.1370	0.137
65	national_tax_journal	296.606	0.286	0.0380	0.038
83	fiscal_studies	86.269	0.083	0.0236	0.024
98	world_economy	68.384	0.066	0.1051	0.105
134	accounting_perspectives	18.341	0.018	0.0737	0.074
137	finance_a_uver	22.143	0.021	0.1539	0.154
152	journal_of_wealth_management	90.552	0.087	0.1520	0.152
199	risk_governance_and_control_financial_markets_and_institutions	1.629	0.002	0.2337	0.234
6	family_business_review	75.721	0.073	0.0733	0.073
12	journal_of_international_economics	29.287	0.028	0.0767	0.077
30	european_economic_review	118.116	0.114	0.0817	0.082
166	asia_pacific_financial_markets	5.389	0.005	0.1204	0.12
171	economia_politica	205.208	0.198	0.0788	0.079
176	decisions_in_economics_and_finance	198.149	0.191	0.0682	0.068
192	journal_of_business_valuation_and_economic_loss_analysis	213.849	0.207	0.1156	0.116
198	macroeconomics_and_finance_in_emerging_market_economies	27.619	0.027	0.1495	0.149
203	banking_and_finance_review	59.944	0.058	0.1299	0.13
26	journal_of_international_management	132.685	0.128	0.0828	0.083
38	world_bank_economic_review	9.300	0.009	0.1606	0.161
162	risk_management_and_insurance_review	20.344	0.02	0.0670	0.067
202	jassa	3.916	0.004	0.1583	0.158
5	journal_of_management	57.308	0.055	0.0262	0.026
82	geneva_papers_on_risk_and_insurance_issues_and_practice	31.137	0.03	0.0669	0.067
103	economie_internationale	12.472	0.012	0.0882	0.088
117	public_finance_review	30.619	0.03	0.0130	0.013
120	international_journal_of_digital_accounting_research	9.260	0.009	0.0337	0.034
146	research_in_accounting_regulation	31.268	0.03	0.0288	0.029

179	journal_of_banking_regulation	4.323	0.004	0.1560	0.156
48	china_economic_review	25.047	0.024	0.0595	0.059
50	international_journal_of_central_banking	0.840	0.001	0.1395	0.14
132	ejournal_of_tax_research	14.727	0.014	0.0101	0.01
23	longe_range_planning	12.535	0.012	0.0309	0.031
61	international_review_of_environmental_and_resource_economics	10.304	0.01	0.0361	0.036
80	applied_mathematical_finance	0.256	0	0.0469	0.047
122	journal_of_property_investment_and_finance	113.388	0.11	0.0158	0.016
125	zbornik_radova_ekonomskog_fakultet_au_rijeci	15.799	0.015	0.0753	0.075
136	finanzarchiv	0.000	0	0.0092	0.009
145	financial_markets_institutions_and_instruments	0.000	0	0.1313	0.131
160	spanish_review_of_financial_economics	102.907	0.099	0.0856	0.086
168	journal_of_public_budgeting_accounting_and_financial_management	141.801	0.137	0.0182	0.018
169	review_of_accounting_and_finance	27.892	0.027	0.0638	0.064
183	international_journal_of_disclosure_and_governance	4.050	0.004	0.0344	0.034
188	international_journal_of_revenue_management	178.000	0.172	0.0381	0.038
205	journal_of_private_equity	15.797	0.015	0.0473	0.047
85	journal_of_european_real_estate_research	86.758	0.084	0.0179	0.018
87	asian_economic_papers	5.693	0.005	0.0295	0.029
110	international_review_of_law_and_economics	184.745	0.178	0.0396	0.04
116	risk_management	24.895	0.024	0.0137	0.014
131	prague_economic_papers	5.241	0.005	0.0442	0.044
173	asian_academy_of_management_journal_of_accounting_and_finance	1.904	0.002	0.0481	0.048
206	australasian_accounting_business_and_finance_journal	48.150	0.047	0.0146	0.015
39	foundations_and_trends_in_accounting	0.264	0	0.0339	0.034
56	journal_of_the_american_taxation_association	0.767	0.001	0.0179	0.018
114	financial_history_review	1.198	0.001	0.0296	0.03
115	applied_econometrics_and_international_development	40.578	0.039	0.0032	0.003
189	hacienda_publica_espanola	0.559	0.001	0.0048	0.005
190	international_research_journal_of_finance_and_economics	163.309	0.158	0.0393	0.039
66	journal_of_corporate_real_estate	0.000	0	0.0021	0.002
97	international_journal_of_health_care_finance_and_economics	3.534	0.003	0.0054	0.005
99	investment_analysts_journal	0.140	0	0.0370	0.037
101	public_budgeting_and_finance	3.444	0.003	0.0018	0.002
129	journal_of_financial_services_marketing	0.508	0	0.0304	0.03
133	international_journal_of_sports_marketing_and_sponsorship	178.000	0.172	0.0077	0.008
148	zeitschrift_für_die_gesamte_versicherungswissenschaft	10.244	0.01	0.0113	0.011
149	universia_business_review	1.331	0.001	0.0066	0.007
154	journal_of_internet_banking_and_commerce	17.065	0.016	0.0165	0.016
49	astin_bulletin	0.000	0	0.0107	0.011
59	american_law_and_economics_review	0.000	0	0.0018	0.002
73	journal_of_financial_counseling_and_planning	0.000	0	0.0282	0.028
102	journal_of_revenue_and_pricing_management	0.000	0	0.0019	0.002
118	wseas_transactions_on_business_and_economics	0.000	0	0.0029	0.003
138	international_journal_of_sport_finance	0.000	0	0.0007	0.001
180	academy_of_accounting_and_financial_studies_journal	0.000	0	0.0044	0.004

181	international_journal_of_business_and_society	0.000	0	0.0033	0.003
208	real_estate_taxation	0.000	0	0.0004	0
210	journal_of_taxation	0.000	0	0.0004	0
53	technological_and_economic_development_of_economy	0.000	0	0.0000	0
107	journal_of_education_finance	0.000	0	0.0000	0
157	banking_law_journal	0.000	0	0.0000	0
163	comptabilite_controle_audit	0.000	0	0.0000	0
165	indian_journal_of_finance	0.000	0	0.0000	0
185	revue_d.etudes_comparatives_est_ouest	0.000	0	0.0000	0
186	finance_and_development	0.000	0	0.0000	0
197	economia_chilena	0.000	0	0.0000	0
207	ata_journal_of_legal_tax_research	0.000	0	0.0000	0
212	international_insolvency_review	0.000	0	0.0000	0

Table 57 Betweenness, Norm.Betweenness, Eigenvector, Norm.Eigenvector

(HITS) Authority, Hub, Norm.Hub

Rank	Journal	Authority	hub	Norm. Hub
42	journal_of_banking_and_finance	0.2061	0.2061	1
167	review_of_development_finance	0.1903	0.1903	0.924
81	pacific_basin_finance_journal	0.2051	0.2051	0.995
74	journal_of_financial_services_research	0.1724	0.1724	0.837
78	journal_of_financial_research	0.1706	0.1706	0.828
109	emerging_markets_finance_and_trade	0.1665	0.1665	0.808
151	international_journal_of_managerial_finance	0.1683	0.1683	0.816
25	journal_of_financial_intermediation	0.1742	0.1742	0.845
86	international_review_of_financial_analysis	0.1642	0.1642	0.797
43	journal_of_financial_stability	0.1493	0.1493	0.724
63	annals_of_finance	0.1302	0.1302	0.632
55	journal_of_international_financial_markets_institutions_and_money	0.1633	0.1633	0.792
182	journal_of_fixed_income	0.1597	0.1597	0.775
35	international_review_of_finance	0.1593	0.1593	0.773
52	international_review_of_economics_and_finance	0.1434	0.1434	0.696
71	review_of_financial_economics	0.1445	0.1445	0.701
94	review_of_quantitative_finance_and_accounting	0.1403	0.1403	0.681
127	journal_of_multinational_financial_management	0.1441	0.1441	0.699
3	journal_of_financial_economics	0.1508	0.1508	0.732
72	north_american_journal_of_economics_and_finance	0.1633	0.1633	0.793
22	journal_of_money_credit_and_banking	0.1235	0.1235	0.599
15	journal_of_financial_markets	0.1472	0.1472	0.714
17	journal_of_financial_and_quantitative_analysis	0.1476	0.1476	0.716
62	journal_of_business_finance_and_accounting	0.0793	0.0793	0.385
76	quantitative_finance	0.1001	0.1001	0.486
79	accounting_and_finance	0.0696	0.0696	0.338
170	journal_of_derivatives	0.1181	0.1181	0.573
37	journal_of_corporate_finance	0.1372	0.1372	0.666
14	review_of_finance	0.1227	0.1227	0.595
96	journal_of_portfolio_management	0.1190	0.1190	0.577
124	studies_in_economics_and_finance	0.1104	0.1104	0.536
128	review_of_derivatives_research	0.1151	0.1151	0.559
18	contemporary_accounting_research	0.0304	0.0304	0.148
54	journal_of_empirical_finance	0.1357	0.1357	0.658
58	financial_management	0.1295	0.1295	0.629
91	japan_and_the_world_economy	0.0964	0.0964	0.468
106	finance_research_letters	0.0961	0.0961	0.467
108	journal_of_international_financial_management_and_accounting	0.0981	0.0981	0.476
2	review_of_financial_studies	0.1130	0.1130	0.548
88	annals_of_economics_and_finance	0.0978	0.0978	0.474
142	asia_pacific_journal_of_financial_studies	0.1027	0.1027	0.498
155	investment_management_and_financial_innovations	0.0947	0.0947	0.459
175	african_finance_journal	0.0969	0.0969	0.47
184	international_journal_of_banking_accounting_and_finance	0.0864	0.0864	0.419
95	quarterly_review_of_economics_and_finance	0.0893	0.0893	0.433

112	global_finance_journal	0.1063	0.1063	0.516
135	accounting_research_journal	0.0545	0.0545	0.265
195	international_journal_of_business	0.0928	0.0928	0.45
1	journal_of_finance	0.0962	0.0962	0.467
44	financial_analysts_journal	0.0796	0.0796	0.386
33	auditing	0.0183	0.0183	0.089
119	accounting_in_europe	0.0195	0.0195	0.095
36	journal_of_risk_and_insurance	0.0626	0.0626	0.304
41	journal_of_financial_econometrics	0.0912	0.0912	0.443
70	international_journal_of_accounting	0.0253	0.0253	0.123
90	international_journal_of_finance_and_economics	0.0618	0.0618	0.3
92	financial_review	0.0960	0.0960	0.466
140	financial_markets_and_portfolio_management	0.0934	0.0934	0.453
40	journal_of_international_money_and_finance	0.0650	0.0650	0.315
67	international_journal_of_theoretical_and_applied_finance	0.0588	0.0588	0.286
32	journal_of_world_business	0.0387	0.0387	0.188
111	international_finance	0.0481	0.0481	0.234
143	review_of_pacific_basin_financial_markets_and_policies	0.0624	0.0624	0.303
156	journal_of_emerging_market_finance	0.0834	0.0834	0.405
177	journal_of_alternative_investments	0.0684	0.0684	0.332
69	accounting_forum	0.0236	0.0236	0.115
123	asian_review_of_accounting	0.0219	0.0219	0.106
126	journal_of_pension_economics_and_finance	0.0283	0.0283	0.137
93	journal_of_accounting_auditing_and_finance	0.0240	0.0240	0.116
100	research_in_international_business_and_finance	0.0582	0.0582	0.282
147	asia_pacific_journal_of_accounting_and_economics	0.0144	0.0144	0.07
13	annual_review_of_financial_economics	0.0604	0.0604	0.293
20	journal_of_risk_and_uncertainty	0.0218	0.0218	0.106
24	management_accounting_research	0.0232	0.0232	0.113
31	mathematical_finance	0.0450	0.0450	0.218
57	mathematics_and_financial_economics	0.0334	0.0334	0.162
158	international_journal_of_monetary_economics_and_finance	0.0476	0.0476	0.231
178	journal_of_behavioral_and_experimental_finance	0.0543	0.0543	0.264
187	international_journal_of_accounting_auditing_and_performance_evaluation	0.0177	0.0177	0.086
27	real_estate_economics	0.0609	0.0609	0.296
60	international_tax_and_public_finance	0.0125	0.0125	0.06
68	economics_letters	0.0270	0.0270	0.131
150	journal_of_behavioral_finance	0.0514	0.0514	0.249
34	games_and_economic_behavior	0.0189	0.0189	0.092
64	international_journal_of_accounting_information_systems	0.0133	0.0133	0.065
105	geneva_risk_and_insurance_review	0.0238	0.0238	0.116
113	journal_of_international_accounting_auditing_and_taxation	0.0122	0.0122	0.059
164	revista_espanola_de_financiacion_y_contabilidad	0.0115	0.0115	0.056
4	journal_of_accounting_and_economics	0.0250	0.0250	0.121
7	journal_of_accounting_research	0.0241	0.0241	0.117
46	international_business_review	0.0178	0.0178	0.086
51	venture_capital	0.0402	0.0402	0.195
84	journal_of_futures_markets	0.0507	0.0507	0.246

89	journal_of_public_economic_theory	0.0130	0.0130	0.063
139	china_journal_of_accounting_research	0.0146	0.0146	0.071
159	afro_asian_journal_of_finance_and_accounting	0.0288	0.0288	0.14
172	algorithmic_finance	0.0391	0.0391	0.19
45	journal_of_real_estate_finance_and_economics	0.0359	0.0359	0.174
47	critical_perspectives_on_accounting	0.0089	0.0089	0.043
75	journal_of_asian_economics	0.0341	0.0341	0.165
104	journal_of_the_japanese_and_international_economies	0.0334	0.0334	0.162
130	journal_of_economics_and_finance	0.0343	0.0343	0.166
10	accounting_review	0.0103	0.0103	0.05
11	journal_of_monetary_economics	0.0356	0.0356	0.173
16	finance_and_stochastics	0.0195	0.0195	0.095
19	journal_of_public_economics	0.0056	0.0056	0.027
28	siam_journal_on_financial_mathematics	0.0274	0.0274	0.133
65	national_tax_journal	0.0055	0.0055	0.027
83	fiscal_studies	0.0029	0.0029	0.014
98	world_economy	0.0206	0.0206	0.1
134	accounting_perspectives	0.0114	0.0114	0.055
137	finance_a_uver	0.0315	0.0315	0.153
152	journal_of_wealth_management	0.0307	0.0307	0.149
199	risk_governance_and_control_financial_markets_and_institutions	0.0486	0.0486	0.236
6	family_business_review	0.0133	0.0133	0.065
12	journal_of_international_economics	0.0150	0.0150	0.073
30	european_economic_review	0.0157	0.0157	0.076
166	asia_pacific_financial_markets	0.0241	0.0241	0.117
171	economia_politica	0.0151	0.0151	0.073
176	decisions_in_economics_and_finance	0.0128	0.0128	0.062
192	journal_of_business_valuation_and_economic_loss_analysis	0.0231	0.0231	0.112
198	macroeconomics_and_finance_in_emerging_market_economies	0.0307	0.0307	0.149
203	banking_and_finance_review	0.0260	0.0260	0.126
26	journal_of_international_management	0.0163	0.0163	0.079
38	world_bank_economic_review	0.0332	0.0332	0.161
162	risk_management_and_insurance_review	0.0126	0.0126	0.061
202	jassa	0.0323	0.0323	0.157
5	journal_of_management	0.0044	0.0044	0.021
82	geneva_papers_on_risk_and_insurance_issues_and_practice	0.0131	0.0131	0.063
103	economie_internationale	0.0176	0.0176	0.085
117	public_finance_review	0.0013	0.0013	0.006
120	international_journal_of_digital_accounting_research	0.0046	0.0046	0.022
146	research_in_accounting_regulation	0.0036	0.0036	0.017
179	journal_of_banking_regulation	0.0322	0.0322	0.156
48	china_economic_review	0.0112	0.0112	0.054
50	international_journal_of_central_banking	0.0290	0.0290	0.141
132	ejournal_of_tax_research	0.0009	0.0009	0.004
23	longe_range_planning	0.0054	0.0054	0.026
61	international_review_of_environmental_and_resource_economics	0.0067	0.0067	0.032
80	applied_mathematical_finance	0.0091	0.0091	0.044
122	journal_of_property_investment_and_finance	0.0025	0.0025	0.012
125	zbornik_radova_ekonomskog_fakultet_au_rijeci	0.0153	0.0153	0.074

136	finanzarchiv	0.0008	0.0008	0.004
145	financial_markets_institutions_and_instruments	0.0273	0.0273	0.133
160	spanish_review_of_financial_economics	0.0173	0.0173	0.084
168	journal_of_public_budgeting_accounting_and_financial_management	0.0022	0.0022	0.01
169	review_of_accounting_and_finance	0.0122	0.0122	0.059
183	international_journal_of_disclosure_and_governance	0.0052	0.0052	0.025
188	international_journal_of_revenue_management	0.0061	0.0061	0.03
205	journal_of_private_equity	0.0091	0.0091	0.044
85	journal_of_european_real_estate_research	0.0034	0.0034	0.017
87	asian_economic_papers	0.0056	0.0056	0.027
110	international_review_of_law_and_economics	0.0079	0.0079	0.039
116	risk_management	0.0022	0.0022	0.01
131	prague_economic_papers	0.0087	0.0087	0.042
173	asian_academy_of_management_journal_of_accounting_and_finance	0.0088	0.0088	0.043
206	australasian_accounting_business_and_finance_journal	0.0019	0.0019	0.009
39	foundations_and_trends_in_accounting	0.0065	0.0065	0.031
56	journal_of_the_american_taxation_association	0.0023	0.0023	0.011
114	financial_history_review	0.0050	0.0050	0.024
115	applied_econometrics_and_international_development	0.0003	0.0003	0.002
189	hacienda_publica_espanola	0.0003	0.0003	0.002
190	international_research_journal_of_finance_and_economics	0.0080	0.0080	0.039
66	journal_of_corporate_real_estate	0.0002	0.0002	0.001
97	international_journal_of_health_care_finance_and_economics	0.0008	0.0008	0.004
99	investment_analysts_journal	0.0077	0.0077	0.037
101	public_budgeting_and_finance	0.0001	0.0001	0
129	journal_of_financial_services_marketing	0.0062	0.0062	0.03
133	international_journal_of_sports_marketing_and_sponsorship	0.0013	0.0013	0.006
148	zeitschrift_für_die_gesamte_versicherungswissenschaft	0.0022	0.0022	0.011
149	universia_business_review	0.0012	0.0012	0.006
154	journal_of_internet_banking_and_commerce	0.0032	0.0032	0.016
49	astin_bulletin	0.0021	0.0021	0.01
59	american_law_and_economics_review	0.0003	0.0003	0.001
73	journal_of_financial_counseling_and_planning	0.0059	0.0059	0.029
102	journal_of_revenue_and_pricing_management	0.0002	0.0002	0.001
118	wseas_transactions_on_business_and_economics	0.0004	0.0004	0.002
138	international_journal_of_sport_finance	0.0000	0.0000	0
180	academy_of_accounting_and_financial_studies_journal	0.0008	0.0008	0.004
181	international_journal_of_business_and_society	0.0005	0.0005	0.003
208	real_estate_taxation	0.0000	0.0000	0
210	journal_of_taxation	0.0000	0.0000	0
53	technological_and_economic_development_of_economy	0.0000	0.0000	0
107	journal_of_education_finance	0.0000	0.0000	0
157	banking_law_journal	0.0000	0.0000	0
163	comptabilite_controle_audit	0.0000	0.0000	0
165	indian_journal_of_finance	0.0000	0.0000	0
185	revue_d.etudes_comparatives_est_ouest	0.0000	0.0000	0
186	finance_and_development	0.0000	0.0000	0
197	economia_chilena	0.0000	0.0000	0
207	ata_journal_of_legal_tax_research	0.0000	0.0000	0

Table 58 (HITS) Authority, Hub, Norm.Hub

Pagerank, Norm.Pagerank, Eccentricity, Norm.Eccentricity

Rank	Journal	pageranks	Norm.Pagerank	eccentricity	Norm.Eccentricity
42	journal_of_banking_and_finance	0.0158	1	4	0
167	review_of_development_finance	0.0154	0.973	4	0
81	pacific_basin_finance_journal	0.0142	0.894	4	0
74	journal_of_financial_services_research	0.0130	0.812	4	0
78	journal_of_financial_research	0.0122	0.756	4	0
109	emerging_markets_finance_and_trade	0.0128	0.797	4	0
151	international_journal_of_managerial_finance	0.0126	0.785	4	0
25	journal_of_financial_intermediation	0.0115	0.716	4	0
86	international_review_of_financial_analysis	0.0113	0.703	4	0
43	journal_of_financial_stability	0.0116	0.717	4	0
63	annals_of_finance	0.0119	0.739	4	0
55	journal_of_international_financial_markets_institutions_and_money	0.0111	0.688	4	0
182	journal_of_fixed_income	0.0109	0.672	4	0
35	international_review_of_finance	0.0105	0.647	4	0
52	international_review_of_economics_and_finance	0.0108	0.666	4	0
71	review_of_financial_economics	0.0108	0.665	4	0
94	review_of_quantitative_finance_and_accounting	0.0109	0.672	4	0
127	journal_of_multinational_financial_management	0.0107	0.66	4	0
3	journal_of_financial_economics	0.0098	0.599	4	0
72	north_american_journal_of_economics_and_finance	0.0096	0.583	4	0
22	journal_of_money_credit_and_banking	0.0097	0.59	4	0
15	journal_of_financial_markets	0.0088	0.533	4	0
17	journal_of_financial_and_quantitative_analysis	0.0087	0.528	4	0
62	journal_of_business_finance_and_accounting	0.0107	0.659	4	0
76	quantitative_finance	0.0099	0.604	4	0
79	accounting_and_finance	0.0106	0.651	4	0
170	journal_of_derivatives	0.0092	0.558	4	0
37	journal_of_corporate_finance	0.0087	0.526	4	0
14	review_of_finance	0.0087	0.527	4	0
96	journal_of_portfolio_management	0.0086	0.521	4	0
124	studies_in_economics_and_finance	0.0089	0.541	4	0
128	review_of_derivatives_research	0.0086	0.519	4	0
18	contemporary_accounting_research	0.0104	0.639	4	0
54	journal_of_empirical_finance	0.0078	0.465	4	0
58	financial_management	0.0076	0.45	4	0
91	japan_and_the_world_economy	0.0081	0.485	4	0
106	finance_research_letters	0.0078	0.468	4	0
108	journal_of_international_financial_management_and_accounting	0.0075	0.448	4	0
2	review_of_financial_studies	0.0069	0.408	4	0
88	annals_of_economics_and_finance	0.0070	0.411	4	0
142	asia_pacific_journal_of_financial_studies	0.0071	0.42	4	0
155	investment_management_and_financial_innovations	0.0072	0.425	4	0

175	african_finance_journal	0.0072	0.423	4	0
184	international_journal_of_banking_accounting_and_finance	0.0077	0.459	4	0
95	quarterly_review_of_economics_and_finance	0.0071	0.417	4	0
112	global_finance_journal	0.0066	0.389	4	0
135	accounting_research_journal	0.0079	0.47	4	0
195	international_journal_of_business	0.0071	0.42	4	0
1	journal_of_finance	0.0065	0.382	4	0
44	financial_analysts_journal	0.0067	0.392	4	0
33	auditing	0.0079	0.471	5	0.5
119	accounting_in_europe	0.0077	0.459	5	0.5
36	journal_of_risk_and_insurance	0.0076	0.449	4	0
41	journal_of_financial_econometrics	0.0056	0.318	4	0
70	international_journal_of_accounting	0.0070	0.415	5	0.5
90	international_journal_of_finance_and_economics	0.0063	0.367	4	0
92	financial_review	0.0057	0.324	4	0
140	financial_markets_and_portfolio_management	0.0057	0.326	4	0
40	journal_of_international_money_and_finance	0.0058	0.335	4	0
67	international_journal_of_theoretical_and_applied_finance	0.0059	0.339	4	0
32	journal_of_world_business	0.0077	0.461	4	0
111	international_finance	0.0061	0.354	5	0.5
143	review_of_pacific_basin_financial_markets_and_policies	0.0055	0.314	4	0
156	journal_of_emerging_market_finance	0.0052	0.291	4	0
177	journal_of_alternative_investments	0.0054	0.307	4	0
69	accounting_forum	0.0064	0.372	5	0.5
123	asian_review_of_accounting	0.0066	0.386	4	0
126	journal_of_pension_economics_and_finance	0.0064	0.374	5	0.5
93	journal_of_accounting_auditing_and_finance	0.0056	0.32	4	0
100	research_in_international_business_and_finance	0.0050	0.279	4	0
147	asia_pacific_journal_of_accounting_and_economics	0.0058	0.336	5	0.5
13	annual_review_of_financial_economics	0.0045	0.245	5	0.5
20	journal_of_risk_and_uncertainty	0.0065	0.381	5	0.5
24	management_accounting_research	0.0054	0.304	5	0.5
31	mathematical_finance	0.0048	0.269	5	0.5
57	mathematics_and_financial_economics	0.0052	0.291	5	0.5
158	international_journal_of_monetary_economics_and_finance	0.0050	0.277	4	0
178	journal_of_behavioral_and_experimental_finance	0.0047	0.258	4	0
187	international_journal_of_accounting_auditing_and_performance_evaluation	0.0054	0.308	4	0
27	real_estate_economics	0.0046	0.252	5	0.5
60	international_tax_and_public_finance	0.0064	0.37	5	0.5
68	economics_letters	0.0051	0.289	5	0.5
150	journal_of_behavioral_finance	0.0044	0.242	4	0
34	games_and_economic_behavior	0.0051	0.289	5	0.5
64	international_journal_of_accounting_information_systems	0.0050	0.28	5	0.5
105	geneva_risk_and_insurance_review	0.0050	0.28	5	0.5
113	journal_of_international_accounting_auditing_and_taxation	0.0053	0.302	5	0.5
164	revista_espanola_de_financiacion_y_contabilidad	0.0051	0.285	5	0.5
4	journal_of_accounting_and_economics	0.0044	0.24	4	0
7	journal_of_accounting_research	0.0044	0.241	4	0

46	international_business_review	0.0052	0.295	5	0.5
51	venture_capital	0.0042	0.224	4	0
84	journal_of_futures_markets	0.0038	0.198	4	0
89	journal_of_public_economic_theory	0.0051	0.286	5	0.5
139	china_journal_of_accounting_research	0.0045	0.243	5	0.5
159	afro_asian_journal_of_finance_and_accounting	0.0042	0.227	5	0.5
172	algorithmic_finance	0.0041	0.22	5	0.5
45	journal_of_real_estate_finance_and_economics	0.0046	0.252	5	0.5
47	critical_perspectives_on_accounting	0.0047	0.262	5	0.5
75	journal_of_asian_economics	0.0038	0.201	4	0
104	journal_of_the_japanese_and_international_economies	0.0039	0.206	5	0.5
130	journal_of_economics_and_finance	0.0041	0.216	4	0
10	accounting_review	0.0041	0.22	5	0.5
11	journal_of_monetary_economics	0.0035	0.177	5	0.5
16	finance_and_stochastics	0.0037	0.196	5	0.5
19	journal_of_public_economics	0.0046	0.255	5	0.5
28	siam_journal_on_financial_mathematics	0.0036	0.186	4	0
65	national_tax_journal	0.0048	0.268	5	0.5
83	fiscal_studies	0.0052	0.294	5	0.5
98	world_economy	0.0039	0.208	4	0
134	accounting_perspectives	0.0039	0.203	5	0.5
137	finance_a_uver	0.0037	0.191	5	0.5
152	journal_of_wealth_management	0.0036	0.186	5	0.5
199	risk_governance_and_control_financial_markets_and_institution s	0.0032	0.158	4	0
6	family_business_review	0.0039	0.205	4	0
12	journal_of_international_economics	0.0035	0.182	5	0.5
30	european_economic_review	0.0038	0.2	5	0.5
166	asia_pacific_financial_markets	0.0032	0.161	5	0.5
171	economia_politica	0.0044	0.236	5	0.5
176	decisions_in_economics_and_finance	0.0044	0.238	5	0.5
192	journal_of_business_valuation_and_economic_loss_analysis	0.0042	0.228	4	0
198	macroeconomics_and_finance_in_emerging_market_economies	0.0032	0.16	5	0.5
203	banking_and_finance_review	0.0037	0.192	5	0.5
26	journal_of_international_management	0.0040	0.215	4	0
38	world_bank_economic_review	0.0029	0.137	5	0.5
162	risk_management_and_insurance_review	0.0034	0.171	5	0.5
202	jassa	0.0028	0.133	5	0.5
5	journal_of_management	0.0036	0.187	5	0.5
82	geneva_papers_on_risk_and_insurance_issues_and_practice	0.0032	0.159	5	0.5
103	economie_internationale	0.0029	0.141	5	0.5
117	public_finance_review	0.0041	0.219	5	0.5
120	international_journal_of_digital_accounting_research	0.0032	0.161	5	0.5
146	research_in_accounting_regulation	0.0032	0.161	5	0.5
179	journal_of_banking_regulation	0.0026	0.12	5	0.5
48	china_economic_review	0.0028	0.129	5	0.5
50	international_journal_of_central_banking	0.0023	0.097	5	0.5
132	ejournal_of_tax_research	0.0038	0.197	5	0.5
23	longe_range_planning	0.0027	0.125	5	0.5

61	international_review_of_environmental_and_resource_economic s	0.0024	0.106	5	0.5
80	applied_mathematical_finance	0.0022	0.093	5	0.5
122	journal_of_property_investment_and_finance	0.0034	0.172	5	0.5
125	zbornik_radova_ekonomskog_fakultet_au_rijeci	0.0023	0.098	5	0.5
136	finanzarchiv	0.0031	0.152	5	0.5
145	financial_markets_institutions_and_instruments	0.0020	0.079	5	0.5
160	spanish_review_of_financial_economics	0.0026	0.117	5	0.5
168	journal_of_public_budgeting_accounting_and_financial_manage ment	0.0031	0.153	5	0.5
169	review_of_accounting_and_finance	0.0025	0.111	5	0.5
183	international_journal_of_disclosure_and_governance	0.0024	0.107	5	0.5
188	international_journal_of_revenue_management	0.0032	0.158	5	0.5
205	journal_of_private_equity	0.0024	0.106	5	0.5
85	journal_of_european_real_estate_research	0.0029	0.138	5	0.5
87	asian_economic_papers	0.0021	0.085	5	0.5
110	international_review_of_law_and_economics	0.0030	0.147	5	0.5
116	risk_management	0.0023	0.102	6	1
131	prague_economic_papers	0.0021	0.086	5	0.5
173	asian_academy_of_management_journal_of_accounting_and_fin ance	0.0019	0.075	5	0.5
206	australasian_accounting_business_and_finance_journal	0.0027	0.124	5	0.5
39	foundations_and_trends_in_accounting	0.0017	0.058	5	0.5
56	journal_of_the_american_taxation_association	0.0018	0.064	5	0.5
114	financial_history_review	0.0017	0.058	5	0.5
115	applied_econometrics_and_international_development	0.0029	0.142	6	1
189	hacienda_publica_espanola	0.0022	0.089	6	1
190	international_research_journal_of_finance_and_economics	0.0022	0.095	5	0.5
66	journal_of_corporate_real_estate	0.0020	0.079	6	1
97	international_journal_of_health_care_finance_and_economics	0.0020	0.082	6	1
99	investment_analysts_journal	0.0013	0.033	5	0.5
101	public_budgeting_and_finance	0.0022	0.091	6	1
129	journal_of_financial_services_marketing	0.0014	0.041	5	0.5
133	international_journal_of_sports_marketing_and_sponsorship	0.0029	0.142	5	0.5
148	zeitschrift_für_die_gesamte_versicherungswissenschaft	0.0020	0.079	5	0.5
149	universia_business_review	0.0017	0.058	5	0.5
154	journal_of_internet_banking_and_commerce	0.0016	0.053	5	0.5
49	astin_bulletin	0.0011	0.021	5	0.5
59	american_law_and_economics_review	0.0015	0.043	6	1
73	journal_of_financial_counseling_and_planning	0.0011	0.016	5	0.5
102	journal_of_revenue_and_pricing_management	0.0014	0.036	6	1
118	wseas_transactions_on_business_and_economics	0.0012	0.028	6	1
138	international_journal_of_sport_finance	0.0021	0.084	6	1
180	academy_of_accounting_and_financial_studies_journal	0.0012	0.027	5	0.5
181	international_journal_of_business_and_society	0.0012	0.027	6	1
208	real_estate_taxation	0.0054	0.309	1	-1.5
210	journal_of_taxation	0.0054	0.309	1	-1.5
53	technological_and_economic_development_of_economy	0.0008	0	0	-2
107	journal_of_education_finance	0.0008	0	0	-2
157	banking_law_journal	0.0008	0	0	-2

163	comptabilite_controle_audit	0.0008	0	0	-2
165	indian_journal_of_finance	0.0008	0	0	-2
185	revue_d.etudes_comparatives_est_ouest	0.0008	0	0	-2
186	finance_and_development	0.0008	0	0	-2
197	economia_chilena	0.0008	0	0	-2
207	ata_journal_of_legal_tax_research	0.0008	0	0	-2
212	international_insolvency_review	0.0008	0	0	-2

Table 59 Pagerank, Norm.Pagerank, Eccentricity, Norm.Eccentricity

Appendix B Codes

Country Tiers

This code creates the table 53 which has all the countries and their tier percentages.

```
TCountry<-Total_Countries
TCountry$Tier1<-0
TCountry$Tier2<-0
TCountry$Tier3<-0
TCountry<- TCountry %>% arrange(Country)
CT1<- EB %>% filter(!is.na(Country) & Tier==1) %>% count( Country) %>% arrange(Country)
CT2<- EB %>% filter(!is.na(Country) & Tier==2) %>% count( Country) %>% arrange(Country)
CT3<- EB %>% filter(!is.na(Country) & Tier==3) %>% count( Country) %>% arrange(Country)
for( i in 1: nrow(TCountry))
{
  for( j in 1:nrow(CT1))
  {
    if ( substring( TCountry[[ i ,1]] ,1,1)!=substring(CT1[[j ,1 ]],1,1))
    {
      j <- nrow(CT1)
    }
    else if ( TCountry[[ i ,1]] == CT1[[j ,1 ]])
    {
      TCountry[ i ,3] <- round( (CT1[j , 2 ] / TCountry [i,2])*100 , 2 )
    }
  }
}
for( i in 1: nrow(TCountry))
{
  for( j in 1:nrow(CT2))
  {
    if ( substring( TCountry[[ i ,1]] ,1,1)!=substring(CT2[[j ,1 ]],1,1))
    {
      j <- nrow(CT2)
    }
    else if ( TCountry[[ i ,1]] == CT2[[j ,1 ]])
    {
      TCountry[ i ,4] <- round( (CT2[j , 2 ] / TCountry [i,2])*100 , 2 )
    }
  }
}
```

```

}
for( i in 1: nrow(TCountry))
{
  for( j in 1:nrow(CT3))
  {
    if ( substring( TCountry[[ i ,1]] ,1,1)!=substring(CT3[[j ,1 ]] ,1,1))
    {
      j <- nrow(CT3)
    }
    else if ( TCountry[[ i ,1]] == CT3[[j ,1 ]])
    {
      TCountry[ i ,5] <- round( (CT3[j , 2 ] / TCountry [i,2])*100 , 2 )
    }
  }
}
}

```

Journal Tiers

This code creates the table 51 which shows the journal's percentage in each tier.

```

a<-Total_ID_Names$ID
k<-1
for ( i in a )
{
  for(j in 1:3)
  {
    Tie<- EB %>% filter(ID==i & Tier == j) %>% count
    Total_id_tier<- Tie$n

    if(j==1)
    {
      Journals[ k ,3 ] <- round((Total_id_tier / Total_ID_Names[k,2])*100,2)
    }
    else if (j==2)
    {
      Journals[ k ,4 ] <- round((Total_id_tier / Total_ID_Names[k,2])*100,2)
    }
    else (j==3)
    {
      Journals[ k ,5 ] <- round((Total_id_tier / Total_ID_Names[k,2])*100,2)
    }
  }
  k<-k+1
}

```

Affiliation Percentages in each tier

This code creates the table 52 which shows the tier percentage in each affiliation

```
Affiliations<- EB %>% filter(!is.na(Affiliation))%>% select( Affiliation,Tier) %>% mutate( Tier1 = 1*(Tier==1))
Affiliations<- Affiliations %>% mutate( Tier2 = 1*(Tier==2))
Affiliations<- Affiliations %>% mutate( Tier3 = 1*(Tier==3))
TT1<- Affiliations %>% filter(Tier1==1) %>% group_by(Affiliation) %>% count(Tier1) %>% arrange(Affiliation)
Total_T1<- sum(TT1[,3])
TT2<- Affiliations %>% filter(Tier2==1) %>% group_by(Affiliation) %>% count(Tier2) %>% arrange(Affiliation)
TT3<- Affiliations %>% filter(Tier3==1) %>% group_by(Affiliation) %>% count(Tier3) %>% arrange(Affiliation)
for( i in 1: nrow(Aff))
{
  if (!is.na(Aff[[ i ,1]] ))
  {
    for( j in 1:nrow(TT1))
    {
      if (!is.na(TT1[[j ,1 ]]))
      {
        if ( substring( Aff[[ i ,1]] ,1,1)!=substring(TT1[[j ,1 ]],1,1) )
        {
          j <- nrow(TT1)
        }
        else if ( Aff[[ i ,1]] == TT1[[j ,1 ]])
        {
          Aff[ i ,3] <- round( (TT1[j , 3 ] / Aff [i,2])*100 , 2 )
        }
      }
    }
  }
}
for( i in 1: nrow(Aff))
{
  if (!is.na(Aff[[ i ,1]] ))
  {
    for( j in 1:nrow(TT2))
    {
      if (!is.na(TT2[[j ,1 ]]))
      {
        if ( substring( Aff[[ i ,1]] ,1,1)!=substring(TT2[[j ,1 ]],1,1) )
        {
          j <- nrow(TT2)
        }
        else if ( Aff[[ i ,1]] == TT2[[j ,1 ]])
        {
          Aff[ i ,4] <- round( (TT2[j , 3 ] / Aff [i,2])*100 , 2 )
        }
      }
    }
  }
}
for( i in 1: nrow(Aff))
{
  if (!is.na(Aff[[ i ,1]] ))
  {
```

```

    for( j in 1:nrow(TT3))
    {
      if (!is.na(TT3[[j ,1 ]]))
      {
        if ( substring( Aff[[ i ,1]] ,1,1)!=substring(TT3[[j ,1 ]],1,1) )
        {
          j <- nrow(TT3)
        }
        else if ( Aff[[ i ,1]] == TT3[[j ,1 ]])
        {
          Aff[ i ,5] <- round( (TT3[j , 3 ] / Aff [i,2])*100 , 2 )
        }
      }
    }
  }
}

```

Individual Journals

This code was created to construct a file that contains a journal's Editorial board, Tiers, Affiliations, and Countries like the tables 4, 5 & 6

CSV Creation

```
test<- read.csv("Data.csv")
a<-test %>% count(ID) %>% arrange(ID)
id<-a$ID
for( i in 1:212)
{
  if (i %in% id)
  {
    Editorial <- test %>% filter(ID==i)
    name<-as.character(Editorial[1,7])
    dir.create(paste("Editorials","/",i,"_",name,sep = ""))
    write.csv(Editorial,paste("Editorials","/",i,"_",name,"/",name,".csv", sep = ""))
    ,row.names = FALSE)

    Tiers<- Editorial %>% filter(!is.na(Tier)) %>% count(Tier) %>% rename(Total= n)
    TotalT<-sum(Tiers[,2])
    Tiers<-Tiers %>% mutate(Percent = round((Total/TotalT)*100,2))
    write.csv(Tiers,paste("Editorials","/",i,"_",name,"/",name,"Tiers.csv", sep = ""))
    ,row.names = FALSE)
    A.p<- Editorial %>% group_by(Tier) %>% count(Adjusted.Position)
    Posi<- Editorial %>% group_by(Tier) %>% count(Position)
    New<-rbind(A.p,Posi)
    write.csv(New,paste("Editorials","/",i,"_",name,"/",name,"Tier_Explanation.csv", sep = ""))
    ,row.names = FALSE)

    Country<- Editorial %>% filter(!is.na(Country) & !is.na(Tier)) %>%
      count(Country) %>% arrange(Country) %>% rename(Total= n)
    Country$Tier1<-0
    Country$Tier2<-0
    Country$Tier3<-0
    T1<- Editorial %>% filter(!is.na(Country) & Tier==1) %>% count(Country)
    T2<- Editorial %>% filter(!is.na(Country) & Tier==2) %>% count(Country)
    T3<- Editorial %>% filter(!is.na(Country) & Tier==3) %>% count(Country)

    for( j in 1 : nrow(Country) )
    {
      if(nrow(T1)!=0)
      {
        for(k in 1 : nrow(T1))
        {
          if (Country[[j,1]] == T1 [[k,1]])
          {
            Country[j,3]<-T1[k,2]
          }
        }
      }
    }

    if(nrow(T2)!=0)
    {
      for(k in 1 : nrow(T2))
      {
```

```

    if (Country[[j,1]] == T2 [[k,1]] )
    {
      Country[j,4]<-T2[k,2]
    }
  }
}

if(nrow(T3)!=0) {
  for(k in 1 : nrow(T3))
  {
    if (Country[[j,1]] == T3[[k,1]])
    {
      Country[j,5]<-T3[k,2]
    }
  }
}

}

TotalC<-sum(Country[,2])
Country <- Country %>% mutate(Percentange = round((Total/TotalC)*100,1))

write.csv(Country,paste("Editorials","/",i,"_",name,"/","Country.csv", sep = "")
, row.names = FALSE)

Affiliation<- Editorial %>% filter(!is.na(Affiliation) & !is.na(Tier)) %>%
  count(Affiliation) %>% arrange(Affiliation) %>% rename(Total= n)
Affiliation$Tier1<-0
Affiliation$Tier2<-0
Affiliation$Tier3<-0
T1<- Editorial %>% filter(!is.na(Affiliation) & Tier==1) %>% count(Affiliation)
T2<- Editorial %>% filter(!is.na(Affiliation) & Tier==2) %>% count(Affiliation)
T3<- Editorial %>% filter(!is.na(Affiliation) & Tier==3) %>% count(Affiliation)

for( j in 1 : nrow(Affiliation) )
{
  if(nrow(T1)!=0)
  {
    for(k in 1 : nrow(T1))
    {
      if (Affiliation[[j,1]] == T1 [[k,1]])
      {
        Affiliation[j,3]<-T1[k,2]
      }
    }
  }
  if(nrow(T2)!=0)
  {
    for(k in 1 : nrow(T2))
    {
      if (Affiliation[[j,1]] == T2 [[k,1]] )
      {
        Affiliation[j,4]<-T2[k,2]
      }
    }
  }
}

```

```

if(nrow(T3)!=0)
{
  for(k in 1 : nrow(T3))
  {
    if (Affiliation[[j,1]] == T3[[k,1]])
    {
      Affiliation[j,5]<-T3[k,2]
    }
  }
}

TotalA<-sum(Affiliation[,2])
Affiliation <- Affiliation %>% mutate(Percentange = round((Total/TotalA)*100,1))
write.csv(Affiliation,paste("Editorials","/",i,"_",name,"/","Affiliation.csv", sep = "")
, row.names = FALSE)
}
}

```

One Excel

Because the files were in csv format the following code was created to have them in excel

```
test<- read.csv("Data.csv")
Journals<- test %>% group_by(Journal) %>% count(ID) %>% arrange(ID)
id<-Journals$ID
j<-0
for(i in 1:212)
{
  if (i %in%id)

    {j<-j+1

name<-as.character(Journals[[j,1]])

  Editorial<-read.csv(paste("Editorials", "/", i, "_", name, "/", name, ".csv", sep = ""))
  Affiliation <-read.csv(paste("Editorials", "/", i, "_", name, "/Affiliation.csv", sep = ""))
  Country <-read.csv(paste("Editorials", "/", i, "_", name, "/Country.csv", sep = ""))
  Tiers <-read.csv(paste("Editorials", "/", i, "_", name, "/Tiers.csv", sep = ""))
  Tier_Exp<-read.csv(paste("Editorials", "/", i, "_", name, "/Tier_Explenation.csv", sep = ""))

  write.xlsx(Editorial,paste("Editorials", "/", i, "_", name, "/", name, ".xlsx", sep = ""), sheetName =
"Editorial_Board",row.names = FALSE)

  write.xlsx(Tiers,paste("Editorials", "/", i, "_", name, "/", name, ".xlsx", sep = ""), sheetName = "Tiers",row.names =
FALSE,append = TRUE)

  write.xlsx(Tier_Exp,paste("Editorials", "/", i, "_", name, "/", name, ".xlsx", sep = ""),sheetName =
"Tier_Explenation",row.names = FALSE,append = TRUE)

  write.xlsx(Country,paste("Editorials", "/", i, "_", name, "/", name, ".xlsx", sep = ""), sheetName =
"Country",row.names = FALSE,append = TRUE)

  write.xlsx(Affiliation,paste("Editorials", "/", i, "_", name, "/", name, ".xlsx", sep = ""),sheetName =
"Affiliation",row.names = FALSE,append = TRUE)
}
}
```

Network

For the incidence matrix we created also a code.

```
####Make a data frame with unique names
EB<- read.csv("Data.csv")
Names<- EB %>% count(Surname_Name)%>%arrange(n)
Nam<-Names$Surname_Name
Nam<-as.matrix(Nam)

####Make a data frame with names and Journals
B<- EB %>% select(Surname_Name,Journal)%>% arrange(Surname_Name)
B<-as.matrix(B)

####Make Journals into rows
Journals<- EB %>% count(Journals)
Journal.Rows <-t(Journals)
Journal.Rows <-as.data.frame(Journal.Rows)
Load the table
Journal.Rows<-read.csv("Journals Rows.csv")
Jrow<-as.matrix(Journal.Rows)

##Load the incidence Matrix

InMa<-read.csv("Incidence Matrix(Data frame).csv")
InMa[,3:194]<-0 #### Add zeros to the incidence matrix
InMa2<-InMa%>% select(journal_of_finance:international_insolvency_review)
InMa2<-as.matrix(InMa2)

for(i in 1: nrow(Nam))
{
  for(k in 1:nrow(B))
  {
    if ( substring( Nam[ i ,1] ,1,1)!=substring( B[[k ,1 ]] ,1,1) )
    {
      k<-nrow(B)
    }
    else if ( Nam[i,1]==B[[k,1]] )
    {
      for(j in 1:192)
      {
        if( B[[k,2]]==Jrow[1,j]) ####If a name matches with a journal then the cell is equal to 1

        {
          InMa2[i,j]<-1
        }
      }
    }
  }
}
```

```

####Create the weighted one mode projection
InMa2<- read.csv("Incidence Matrix.csv")
B<-as.matrix(InMa2)
B.tr<- t(B)
P<-B.tr%*%B #### Weighted Matrix
P2<- as.data.frame(P)

```

```

####Set the diagonal elements equal to zero
for(i in 1:192)
{
  for(j in 1:192)
  {
    if (i==j)
    {
      P[i,j]<-0
    }
  }
}

```

```

## Set the off-diagonal elements equal to 1
for(i in 1: 192)
{
  for(j in 1:192)
  {
    if(P[i,j]!=0)
    {
      P[i,j] <- 1
    }
  }
}

```

References

1. Alzahrani S., *The Role of Editorial Boards of Scholarly Journals of the Green and the Gold Road to Open Access*, The University of British Columbia, (2010)
2. Amrein K., Langmann A., Fahrleitner-Pammer A., Pieber T.R., Zollner-Schwetz I., *Women Underrepresented on Editorial Boards of 60 Major Medical Journals*, *Gender Medicine*, 8 (2011), 378-387
3. Andrikopoulos A. Economou .L, *Editorial Board Interlocks in Financial Economics*, *International Review of Financial Analysis*, 37 (2015), 51–62
4. Baccini A., Barabesi L., *Interlocking editorship. A network analysis of the links between economic journals*, *Scientometrics*, 82 (2010), 365–389
5. Baccini A., Barabesi L., *Seats at the table: The network of the editorial boards in information and library science*, *Journal of Informetrics*, 5 (2011), 382–391
6. Bates H. L., Waldrup B. E., Shea V. J., Heflin W. L., *Accounting Editorial Board Membership and Research Output*, *Journal of Business & Economics Research*, 9 (2011), 39-46
7. Bedeian A. G., Van Fleet D. D., Hyman Iii H. H., *Scientific Achievement and Editorial Board Membership*, *Organizational Research Methods*, 12 (2009), 211-238
8. Besancenot D., Huynh Kim V., Faria J. R., *Search and Research: The Influence of Editorial Boards on Journals Quality*, *Theory and Decision*, 73 (2012), 687–702
9. Beyer J. M., *Editorial Policies and Practices Among Leading Journals in Four Scientific Fields*, *The Sociological Quarterly*, 19 (1978), 68-88
10. Boldt J, Maleck W, *Composition of The Editorial/Advisory Boards of Major English-Language Anesthesia/Critical Care Journals*, *Acta Anaesthesiol Scand*, 44 (2000), 175–179
11. Braun T., Dióspatonyia I., *The Counting of Core Journal Gatekeepers as Science Indicators Really Counts. the Scientific Scope of Action and Strength of Nations*, *Scientometrics*, 62 (2005), 297-319
12. Braun T., Dióspatonyia I., *The Journal Gatekeepers of Major Publishing Houses of Core Science Journals*, *Scientometrics*, 64 (2005), 113-120
13. Braun T., Dióspatonyia I., Zsindely S., Zádor E., *Gatekeeper Index Versus Impact Factor of Science Journals*, *Scientometrics*, 71 (2007), 541–543
14. Braun T., Dióspatonyia I., Zsindely S., Zádor E., *Journal Gatekeepers Indicator-Based Top Universities of the World, of Europe and of 29 Countries – A Pilot Study*, *Scientometrics*, 71 (2007), 155–178
15. Braun T., *Keeping the Gates of Science Journals Gatekeeping Indicators of National Performance in the Sciences*, *Handbook of Quantitative Science and Technology Research*, (2005), 95-114
16. Brinn T., Jones M. J., *Editorial Boards In Accounting: The Power And The Glory*, *Accounting Forum*, 31 (2007), 1–25
17. Burgess T. F., Shaw N. E., *Editorial Board Membership of Management and Business Journals: A Social Network Analysis Study of The Financial Times 40*, *British Journal of Management*, 21 (2010), 627–648

18. Chan K. C., Fok R. C. W., *Membership on Editorial Boards and Finance Department Rankings*, The Journal of Financial Research, 26 (2003), 405–420
19. Crane D., *The gatekeepers of science: some factors affecting the selection of articles for scientific journals*. The American Sociologist, (1967), 195–201.
20. Cronin B., *A Seat at The Table*, Journal of the American Society for Information Science and Technology, 60 (2009), 2387
21. Dawson M. N., Field R., Hortal J., *Guides, Not Gatekeepers*, Frontiers of Biogeography, 6 (2014), 108–110
22. Erren T., Groß J., Shaw Dm, Selle B., *Representation of Women as Authors, Reviewers, Editors in Chief, and Editorial Board Members at 6 General Medical Journals in 2010 and 2011*, Jama Intern Med, 174 (2014), 633–635
23. Fogarty T. J., Liao C.H., *Blessed Are the Gatekeepers: A Longitudinal Study of The Editorial Boards of the Accounting Review*, Accounting Education, 24 (2009), 299–318
24. Fong C.J., Yoo, J.H., Jones S.J., *Trends in Female Authorships, Editorial Board Memberships, and Editorships in Educational Psychology Journals From 2003 to 2008*, Educational Psychology Review, 21 (2009), 267–27
25. Frandsen T. F., Nicolaisen J. *A Lucrative Seat at The Table: Are Editorial Board Members Generally Over-Cited In Their Own Journals?*, Proceedings of The American Society for Information Science and Technology, 47 (2010), 1–8
26. García-Carpintero E., Granadino B., Plaza L.M., *The Representation of Nationalities on the Editorial Boards of International Journals and the Promotion of the Scientific Output of the Same Countries*, Scientometrics, 84 (2010), 799–811
27. Hage P., Harary F., *Eccentricity and Centrality in Networks*, Social Networks, 17 (1995), 57–63
28. Hames I., *Editorial Boards*, Science Editors' Handbook European Association of Science Editors, (2013)
29. Hames I., *Editorial Boards: Realizing Their Potential*, Learned Publishing, 14 (2001), 247–256
30. Hardin W.G., Liano K., Chan, K.C., *Finance Editorial Board Membership and Research Productivity*, Review of Quantitative Finance and Accounting, 31 (2008), 225–240
31. Hatfield P., Webb S., *Gender Analysis in Editorial Boards of Finance Journals*, The Clute Institute International Academic Conference, (2014), 229–231
32. Hess D. J., *Science Studies: An advanced introduction*, New York University Press, (1997)
33. Hirsch J.E., *An Index to Quantify an Individual's Scientific Research Output*, PNAS, 102 (2005), 16569–16572
34. Hitt M. A., *Editorial Judgments, Quality Scholarship, and the Academy of Management's Journals*, Organizational Research Methods, (2008)
35. Hodgson G. M., Rothman H., *The Editors and Authors of Economics Journals: A Case of Institutional Oligopoly?*, The Economic Journal, 109 (1999), 165–186
36. Humphreys J. T., Stauffer S. L., *An Analysis of the Editorial Committee of the Journal of Research in Music Education*, 1953–1992, Journal of Research in Music Education, 48 (2000), 65–77

37. Ioannidou E., Rosania A., *Under-Representation of Women on Dental Journal Editorial Boards*, Plos, 10 (2015), 1-9
38. Jagsi R., Tarbell N., Henault L., Chang Y., Hylek E., *The Representation Of Women On The Editorial Boards Of Major Medical Journals: A 35-Year Perspective*, American Medical Association, 168 (2008), 544-548
39. Jokić M., Sirotić G., *Do the International Editorial Board Members of Croatian Social Sciences and Humanities Journals Contribute to their Visibility?* Medijska Istraživanja: Znanstveno-Stručni Časopis Za Novinarstvo I Medije, 21 (2016), 5-33
40. Kaufman G. G., *Rankings of Finance Departments by Faculty Representation on Editorial Boards of Professional Journals: A Note*, The Journal of Finance, 39 (1984), 1189–1197
41. Kennedy B. L., Lin Y., Dickstein L. J., *Women on the Editorial Boards of Major Journals*, Academic Medicine, 76 (2001), 849-851
42. Kim J., *Examining the Knowledge Structure in the Communication Field: Author Cocitation Analysis for the Editorial Board of the Journal of Communication, 2008 and 2011*, Journal of The Korean Biblia Society For Library And Information Science, 23 (2012), 109-132
43. Kim J., Koh K., *Editorship in Economics Journals*, (2010)
44. Kumar V., Srivastava R., *Indian Gatekeepers of Foreign Journals: A Preliminary Analysis*, Scientometric Res., 2 (2013), 110-115
45. Lange L. L., Frensch P. A., *Gaining Scientific Recognition by Position: Does Editorship Increase Citation Rates?*, Scientometrics, 44 (1999), 459-486
46. Lee T., *The Editorial Gatekeepers of the Accounting Academy*, Accounting, Auditing & Accountability Journal, 10 (1997), 11-30
47. Leydesdorff L., Milojević S., *Scientometrics*, International Encyclopedia of Social and Behavioral Sciences, Science and Technology Studies, 21 (2015), 322-327
48. Liwei Z., Chunlin J., *Social Network Analysis And Academic Performance Of The Editorial Board Members For Journals Of Library And Information Science*, Collnet Journal of Scientometrics and Information Management, 9 (2015), 131-143
49. Lowe J., Van Fleet D. D., *Scholarly Achievement and Accounting Journal Editorial Board Membership*, Journal of Accounting Education, 27 (2009), 197–209
50. Malin B., Kathleen C., *A Longitudinal Social Network Analysis of the Editorial Boards of Medical Informatics and Bioinformatics Journals*, Journal of the American Medical Informatics Association, 14 (2007), 340-348
51. Mauleon E., Hillán L., Moreno L., Gómez I., Bordons M., *Assessing Gender Balance Among Journal Authors and Editorial Board Members*, Scientometrics, 95 (2013), 87–114
52. Medoff Ma. H., *Editorial Favoritism in Economics*, Southern Economic Journal, 70 (2003), 425-434
53. Metz I., Harzing A.W.K., *Practicing What We Preach: The Geographic Diversity of Editorial Boards the International Conference of Economics, Business Management and Marketing*, 53 (2010), 169-187
54. Metz I., Harzing A.W., Zyphur M.J., *Of Journal Editors and Editorial Boards: Who Are the Trailblazers in Increasing Editorial Board Gender Equality*, British Journal of Management, 27 (2016), 712–726

55. Miniaci R., Pezzoni M., *Is Publication in the Hands of Outstanding Scientists? A Study on the Determinants of Editorial Boards Membership in Economics*, GREDEG, (2015)
56. Mizruchi M. S., *What Do Interlocks Do? An Analysis, Critique, and Assessment of Research on Interlocking directorates*, *Annual Review of Sociology*, 22 (1996), 271-298
57. Newman M. E. J., *Networks an Introduction*, OXFORD UNIVERSITY PRESS
58. Ni C., Sugimoto C. R., Cronin B., *Visualizing and Comparing Four Facets of Scholarly Communication: Producers, Artifacts, Concepts and Gatekeepers*, *Scientometrics*, 94 (2013), 1161-1173
59. Nisonger T. E., *The Relationship Between International Editorial Board Composition and Citation Measures in Political Science, Business, and Genetics Journals*, *Scientometrics*, 54 (2002), 257–268
60. Pan Y., Zhang J. Q., *The Composition of the Editorial Boards of General Marketing Journals*, *Journal of Marketing Education*, 36 (2013), 1-12
61. Pardeck J.T., *Are Social Work Journal Editorial Boards Competent? Some Disquieting Data with Implications for Research on Social Work Practice*, *Research on Social Work Practice*, 2 (1992), 487-496
62. Pardeck J.T., Meinert R.G., *Scholarly Achievements of the Social Work Editorial Board and Consulting Editors: A Commentary*, *Research on Social Work Practice*, 9 (1999), 86-91
63. Parker L.D., *Developing Research Journals and Qualitative Inquiry: The Role of the Editorial Board*, *Qualitative Research in Accounting & Management*, 4 (2007), 168 – 182
64. Powell K., *Gatekeeper's Burden*, *Nature*, 464 (2010), 800-801
65. Rosenstreich D., Wooliscroft B., *Are Our Top Journals Becoming More International?*, Conference Paper (2008), 1-8
66. Rosenstreich D., Wooliscroft B., *How International Are the Top Academic Journals? The Case of Marketing*, *European Business Review* 18 (2006), 422 – 436
67. Rost, F., *Quantitative and Qualitative Rankings of Scholars*, *Schmalenbach Business Review*, 63 (2011), 63-91
68. Svensson, T., Helgesson S., *The 'Geographical Affiliations' in 'Top' Research Journals of General Marketing*, *Australasian Marketing Journal*, 17 (2009), 154-159
69. SCImago - <http://www.scimagojr.com/aboutus.php>
70. Tomizawa Y., *What Are the Qualifications And Selection Criteria for Women to be Appointed to Society Journal Editorial Boards*, *General Thoracic and Cardiovascular Surgery*, 62 (2014), 131-132
71. Tutarel O., *Composition of The Editorial Boards of Leading Medical Education Journals*, *Bmc Medical Research Methodology*, 4 (2004), 3-4
72. Urbancic F.R., *The Gatekeepers of Business Education Research: An Institutional Analysis*, *Journal of Education for Business* 86 (2011), 302-310
73. Uzun A., *Assessing Internationality of Scholarly Journals Through Foreign Authorship Patterns: The Case of Major Journals in Information Science, and Scientometrics*, *Scientometrics* 61 (2004), 457-465

74. Walters W.H., *Do Editorial Board Members in Library and Information Science Publish Disproportionately in the Journals for Which They Serve as Board Members?*, *Journal of Scholarly Publishing*, 46 (2015), 343-354
75. Weinrach S., Kenneth R., Pruett C., *Scholarly Productivity of Editorial Board Members of Three American Counseling and Counseling Psychology Journals*, *International Journal for the Advancement of Counselling* 28 (2006), 303-315
76. Weis N. A., *Introductory Statistics*, Pearson, 2012
77. Willett P., *The Characteristics of Journal Editorial Boards in Library and Information Science*, *International Journal of Knowledge Content Development and Technology*, 3 (2013), 5-17
78. Zsindely S., Schubert A., Braun T., *Citation Patterns of Editorial Gatekeepers in International Chemistry Journals*, *Scientometrics*, 4 (1982), 69-76
79. Zuckerman, H. A., *Patterns of name ordering among authors of scientific papers: A study of social symbolism and its ambiguity*, *The American Journal of Sociology* Publication of the Bureau of Applied Social Research, (1971), 276–291.