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Ranking economics journals using data from a national research evaluation exercise*

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Abstract

This paper describes an algorithm for creating a ranking of economics journals using data from the 2014 UK Research Excellence Framework (REF) exercise. The ranking generated by the algorithm can be viewed as a measure of the average quality of the papers published in the journal, as judged by the REF Economics and Econometrics sub-panel, based on the outputs submitted to the REF.

Keywords: Journal ranking, Research Excellence Framework

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1 Introduction

Research evaluations are increasingly used to inform the allocation of public research funding. A recent large-scale example is the 2014 Research Excellence Framework (REF), which evaluated a sample of research conducted by researchers in UK higher education institutions. The quality of each submitted output (i.e. a journal article, working paper, book chapter or authored book) was assessed by the members of one of 36 sub-panels and given an individual score. Out of the 2600 outputs submitted to the Economics and Econometrics sub-panel 28% of outputs were classified as ‘world-leading’ (4*), 49% as ‘internationally excellent’ (3*), 20% as ‘recognised internationally’ (2*) and 3% as ‘recognised nationally’ (1*)¹. The scores were made publicly available at the level of the department only, along with a list of the outputs submitted by each department².

This paper uses the publicly available data from the REF 2014 to construct a ranking of economics journals. This is done by using a simple algorithm which allocates a rank to each submitted output based on the journal it was published in and compares the predicted share of outputs in the different categories at the departmental level to the actual shares. The algorithm systematically changes the rank of the journals to find the combination that best reproduces the actual department-level shares.

The ranking generated by the algorithm can be viewed as a measure of the average quality of the papers published in the journal, as judged by the REF sub-panel, based on the outputs submitted to the REF. Since the outputs were assessed individually it should not be viewed as an attempt to construct an ‘official’ UK ranking of economics journals. It is likely that the actual scores given to the outputs by the sub-panel members varied among papers published in the same journal, which is why the ranking is best viewed as an attempt to infer the average quality of the papers published in the journal.

The paper is organised as follows. Section 2 describes the algorithm used to construct the journal ranking and section 3 presents the ranking along with a robustness check. Section 4 offers some concluding remarks.

2 Methodology

Each of the 2600 outputs submitted to the Economics and Econometrics REF sub-panel is given an initial rank. Using the initial ranks assigned to each paper we can predict the proportion of 4*, 3*, 2* and 1* submissions for each department. We then calculate the squared difference between the predicted and actual proportions for each

¹In addition a small number of outputs were ‘unclassified’.

²The individual scores assigned to each output were destroyed once the results for the departments were complete.

category and sum the squared differences over departments ($i = 1, 2, \dots, 28$) and categories ($j = 1, 2, \dots, 4$). The sum of squared differences (SSD) weighted by the number of submissions from each department (N_i) is given by:

$$SSD = \sum_{i=1}^{28} \sum_{j=1}^4 N_i (p_{ij} - \hat{p}_{ij})^2 \quad (1)$$

where p_{ij} is the actual proportion of j -star submissions in department i , and \hat{p}_{ij} is the predicted proportion. The journals are then sorted in random order and the following algorithm is run:

1. Starting with the first journal re-calculate the SSD after temporarily assigning the journal each of the four possible ranks
2. Assign the journal the rank which leads to the lowest SSD in step 1
3. Repeat steps 1 and 2 for all the journals in the ranking
4. Repeat steps 1 to 3 until the algorithm converges. Convergence is declared when an iteration (i.e. a run through steps 1 to 3) decreases the SSD by less than 0.0001.

The criterion for including a journal in the ranking is that at least 5 papers published (or forthcoming) in the journal were submitted to the REF. Together the papers published in the resulting 96 journals constitute 82% of the 2600 outputs submitted. This threshold is somewhat arbitrary, but represents a tradeoff between the desire to include as many journals as possible in the ranking and having a reasonable basis for ranking a journal³. Note that all the submitted outputs are included when calculating \hat{p}_{ij} , but the rank is held constant at the initial value for journals not included in the ranking.

In the next section this approach is used to generate a journal ranking using the Keele list⁴ to assign the initial ranks. The sensitivity of the results to the chosen starting values is then subsequently explored, and the generated ranking is compared with two existing rankings of economics journals.

³Increasing the threshold to 10 leads to very similar results for the 60 journals included in both rankings.

⁴See Hudson (2013) for a description of the Keele list. The advantage of using this ranking for the purpose of assigning initial ranks is that it uses the same 4 quality categories as the REF. It is also fairly comprehensive, although it omits some newer journals.

3 Results

3.1 Journal ranking

The initial rank is set equal to the rank of the journal the paper was published in according to the Keele list. 85% of outputs are classified in this way. The remaining outputs are either working papers (6%), book chapters or authored books (2%), or papers published in journals not covered by the Keele list (7%). Working papers, book chapters and authored books are assigned a rank equal to the modal rank of the outputs submitted by the respective department minus one⁵. Papers published in journals not in the Keele list are given a rank of 1, with a number of exceptions listed in Table 1.

In the case of several journals the rank of the journal depends on the initial sort order. The algorithm is therefore run 1000 times, each time with a different random sort order. Typically the algorithm converges in 5 – 10 iterations and decreases the *SSD* from 125.5 to about 38 – 45 depending on the sort order. This represents a reduction of about 64 – 70%. The results from the 1000 runs are summarised in Appendix Table A1. Before proceeding it is worth mentioning that while most of the journals are consistently classified in either just one category or in two adjacent categories, there is a small number of journals which are more erratic in terms of their ranking. For example, the Journal of Economic Geography is ranked as 3* just under one third of the time and 1* about two thirds of the time, while the Journal of Economics and Management Strategy is ranked as 4* about 40% of the time and 1* just under 60% of the time. This may reflect that the papers published in these journals were considered to be of more variable quality by the REF panel, but it could also be a consequence of the fact that the journals had a small number of REF submissions.

The approach suggested by Hudson (2013) is used to convert the results into a ranking, where each journal is categorised according to the likelihood that it belongs to a certain category. To be specific, a journal is considered to be 4* if the proportion of times the algorithm ranks it as 4* is greater than or equal to 0.65. Journals with a proportion greater than or equal to 0.5 but lower than 0.65 is classified as a ‘probable 4*’ while journals with a proportion greater than or equal to 0.35 but lower than 0.5 is classified as a ‘possible 4*’. This is then repeated for the other categories, only that now the cumulative proportion is used. For example, a journal is considered to be 3* if the proportion of times the algorithm ranks it as 3* or higher is greater than or equal to 0.65 and it has not already been ranked as 4*. As discussed by Hudson (2013) the choice of

⁵This is of course somewhat arbitrary, but can be justified on the grounds that the sub-panel overview report (available at <http://www.ref.ac.uk/panels/paneloverviewreports/>) states that the proportion of world-leading or internationally excellent quality outputs was higher in the case of journal articles than other outputs ‘reflecting the rigorous process of peer review which is now the norm in economics journals’.

cutoffs is arbitrary, but this approach avoids a sharp distinction between the categories. The results are presented in Table 2.

It can be seen from the table that the journals typically considered to be the top-5 economics journals⁶ (see e.g. Card and DellaVigna, 2013) are all ranked unambiguously as 4*, which gives the results some validity. In addition a number of high-quality field journals are ranked as 3*.

The algorithm ranks the relatively new American Economic Association journals⁷ very highly, either as 4* or probable/possible 4*. The same goes for Quantitative Economics, the relatively new Econometric Society journal. Also of interest is that two economic history journals (Journal of Economic History and Explorations in Economic History) are ranked as 4* and a third (Economic History Review) as possible 4*.

While the findings in general seem plausible, there are some unexpected results. For example, while the Journal of Environmental Economics and Management is generally considered the top field journal in environmental economics, Environmental and Resource Economics performs better in the ranking⁸. Another surprise is the relatively low rank of the Canadian Journal of Economics and Economics Letters which both typically perform better in other rankings of economics journals (see e.g. Kalaitzidakis et al., 2011). Finally, some journals which do not have an exclusive economics focus, such as the Journal of the Royal Statistical Society: Series A and Management Science, are ranked relatively low.

3.2 Robustness check

To explore the sensitivity of the results to the starting values chosen for the algorithm the analysis is re-run using randomly chosen starting values for the 96 journals in the ranking. All the other aspects of the methodology remain unchanged.

The results are presented in Appendix Table A2. The ranking is remarkably stable: the correlation⁹ between the rankings is 0.94, which suggests that the final ranking is not very sensitive to the choice of starting values. In most cases the journals either keep the same rank or move from being unambiguously ranked in one category to being possibly or probably ranked in the same or an adjacent category (or vice versa). There is a small number of journals for which the rank changes more dramatically: Econometric Theory, for example, is ‘upgraded’ from 3* to 4* and the Review of Income and Wealth

⁶The American Economic Review, Econometrica, the Journal of Political Economy, The Quarterly Journal of Economics and The Review of Economic Studies.

⁷American Economic Journal: Microeconomics, Macroeconomics, Applied Economics and Economic Policy.

⁸Note that the first issue of the new Journal of the Association of Environmental and Resource Economists was published in 2014, i.e. after the end of the REF period.

⁹To compute the correlation possible/probable 4* is coded as 3.35/3.65 and possible/probable 3* as 2.35/2.65.

is ‘downgraded’ from possible 4* to 2*. The latter journal has only 6 submissions to the REF, which suggests that its rank should be treated with some caution.

3.3 Comparison with Keele and Academic Journal Guide 2015 rankings

Table 3 shows the pairwise correlations between the two rankings based on the REF data, the Keele ranking and the recent rankings from the Academic Journal Guide (AJG) 2015¹⁰. Like the Keele list the AJG 2015 divides the journals into four quality categories, plus an additional ‘journal of distinction’ category which is re-coded as 4* for the purpose of computing the correlations. It can be seen that the correlation between the rankings based on the REF data is much higher than the correlations between these rankings and the Keele and AJG 2015 rankings.

4 Concluding remarks

This paper has described an algorithm for creating a ranking of economics journals using data from the 2014 UK Research Excellence Framework (REF) exercise. The ranking generated by the algorithm can be viewed as a measure of the average quality of the papers published in the journal, as judged by the REF Economics and Econometrics sub-panel, based on the outputs submitted to the REF.

While the ranking produced is broadly consistent with existing rankings of economics journals some cautions are in order. Firstly the ranking of the journals is based on a sample of papers published in the journals, in some cases as few as 5. The submitted papers may not be representative of the population of papers published in the journal. Secondly the ranking is based on the subjective judgments of a small group of economists, albeit a very influential one in a UK context. Thirdly, if fewer than 5 papers published in a journal were submitted to the REF the journal is omitted from the ranking regardless of its quality. For these reasons the ranking should be considered a complement to existing rankings of economics journals, and not as a stand-alone measure of the quality of the papers published in a journal.

¹⁰The guide can be downloaded at www.bizschooljournals.com (subject to free registration). We use the rankings in the ‘Economics, Econometrics and Statistics’ and ‘Business History and Economic History’ categories.

References

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Table 1: Initial rank of journals not covered by the Keele list

Journal	Initial rank
Nature	4
Science	4
American Journal of Political Science	3
Proceedings of the National Academy of Sciences	3
Journal of Econometric Methods	3
Quantitative Economics	3
The B.E. Journal of Economic Analysis & Policy	3
The B.E. Journal of Macroeconomics	3
The B.E. Journal of Theoretical Economics	3
American Economic Journal: Microeconomics	3
American Economic Journal: Macroeconomics	3
American Economic Journal: Economic Policy	3
American Economic Journal: Applied Economics	3
Journal of Human Capital	2
Journal of Time Series Econometrics	2

Table 2a: Journal ranking using the Keele list to assign initial ranks

Journal	Cumulative proportion	Number of REF submissions
4*		
American Economic Review	1	111
Econometrica	1	69
Review of Economic Studies	1	63
Quantitative Economics	1	12
Quarterly Journal of Economics	.999	29
Journal of Economic History	.984	13
American Economic Journal: Economic Policy	.984	12
The B.E. Journal of Theoretical Economics	.879	5
Journal of the European Economic Association	.868	71
Journal of the American Statistical Association	.854	5
Explorations in Economic History	.825	11
Journal of Political Economy	.817	24
American Economic Journal: Applied Economics	.812	16
Journal of Econometrics	.787	93
Journal of Monetary Economics	.676	42
Probable 4*		
American Economic Journal: Macroeconomics	.619	11
International Journal of Forecasting	.559	5
Possible 4*		
American Economic Journal: Microeconomics	.497	16
Journal of Economic Theory	.468	80
Economic History Review	.449	9
The Econometrics Journal	.424	9
Journal of Economics & Management Strategy	.410	8
Review of Income and Wealth	.369	6
3*		
Economic Journal	1	103
European Economic Review	1	51
International Economic Review	1	28
Journal of Finance	1	6
Journal of International Economics	1	36
Review of Economics and Statistics	1	59
Journal of Public Economics	1	57
Social Choice and Welfare	1	14
Journal of Development Economics	1	48
Journal of Mathematical Economics	1	18
Scandinavian Journal of Economics	1	16
RAND Journal of Economics	1	16
Journal of Applied Econometrics	1	24
Games and Economic Behavior	1	79
Labour Economics	1	19
Journal of Population Economics	1	9
Experimental Economics	1	8
Journal of Law, Economics, & Organization	1	11
Energy Economics	.999	5
Economic Theory	.998	49
Journal of Labor Economics	.997	13
Journal of Money, Credit and Banking	.996	33
International Journal of Industrial Organization	.995	16
Review of Financial Studies	.995	5
International Journal of Game Theory	.992	11
Ecological Economics	.987	6
The B.E. Journal of Macroeconomics	.986	9

Table 2b: Journal ranking using the Keele list to assign initial ranks (cont.)

Journal	Cumulative proportion	Number of REF submissions
Journal of Statistical Planning and Inference	.977	5
Environmental and Resource Economics	.973	15
Review of Economic Dynamics	.968	14
Oxford Economic Papers	.967	24
Journal of Human Resources	.966	7
Theoretical Economics	.953	13
Journal of Business & Economic Statistics	.935	13
Macroeconomic Dynamics	.925	10
Journal of Economic Behavior & Organization	.924	42
Economica	.911	18
Econometric Theory	.891	35
Journal of Economic Dynamics and Control	.884	44
Journal of Health Economics	.866	33
Journal of Public Economic Theory	.772	12
Southern Economic Journal	.767	5
World Bank Economic Review	.696	5
Probable 3*		
Economic Inquiry	.649	13
Theory and Decision	.616	13
Oxford Bulletin of Economics and Statistics	.613	28
Economic Policy	.597	6
Journal of Risk and Uncertainty	.523	8
Possible 3*		
Public Choice	.483	14
Journal of Industrial Economics	.431	6
Computational Statistics & Data Analysis	.421	7
Studies in Nonlinear Dynamics and Econometrics	.394	6
Mathematical Social Sciences	.385	8
2*		
Canadian Journal of Economics	1	28
Management Science	1	6
Journal of Env. Economics and Management	1	11
Journal of Time Series Analysis	1	9
Journal of Comparative Economics	1	8
Economics Letters	1	62
Journal of International Money and Finance	1	15
Economic Modelling	1	7
World Development	1	7
Journal of Banking and Finance	1	23
Journal of Empirical Finance	1	5
Journal of the Royal Statistical Society: Series A	1	19
Journal of Int. Fin. Markets, Institutions & Money	1	6
Manchester School	1	10
Journal of Financial Economics	.995	5
Annals of Finance	.967	5
Journal of Agricultural Economics	.921	10
1*		
Applied Economics	1	6
Review of International Economics	1	5
Journal of Economic Geography	1	5

Note: The cumulative proportion is the proportion of times the algorithm has classified the journal in the assigned category or higher.

Table 3: Pairwise correlations between the different rankings

	REF-based (Keele)	REF-based (Random)	Keele	AJG 2015
REF-based (Keele)	1			
REF-based (Random)	.94	1		
Keele	.48	.42	1	
AJG 2015	.48	.47	.53	1

Table A1a: Results from 1000 runs of the algorithm

Journal	4*	3*	2*	1*
American Economic Review	1	0	0	0
Econometrica	1	0	0	0
Review of Economic Studies	1	0	0	0
Quantitative Economics	1	0	0	0
Quarterly Journal of Economics	.999	.001	0	0
Journal of Economic History	.984	.016	0	0
American Economic Journal: Economic Policy	.984	.007	.009	0
The B.E. Journal of Theoretical Economics	.879	.121	0	0
Journal of the European Economic Association	.868	.132	0	0
Journal of the American Statistical Association	.854	.146	0	0
Explorations in Economic History	.825	.175	0	0
Journal of Political Economy	.817	.183	0	0
American Economic Journal: Applied Economics	.812	.188	0	0
Journal of Econometrics	.787	.085	.128	0
Journal of Monetary Economics	.676	.324	0	0
American Economic Journal: Macroeconomics	.619	.381	0	0
International Journal of Forecasting	.559	.441	0	0
American Economic Journal: Microeconomics	.497	.503	0	0
Journal of Economic Theory	.468	.532	0	0
Economic History Review	.449	.551	0	0
The Econometrics Journal	.424	.458	.118	0
Journal of Economics & Management Strategy	.410	.002	.006	.582
Review of Income and Wealth	.369	.023	.608	0
Macroeconomic Dynamics	.336	.589	.075	0
Review of Economics and Statistics	.288	.712	0	0
Journal of Public Economic Theory	.270	.502	.157	.071
Games and Economic Behavior	.266	.734	0	0
RAND Journal of Economics	.206	.794	0	0
Econometric Theory	.180	.711	.109	0
Scandinavian Journal of Economics	.166	.834	0	0
Review of Economic Dynamics	.145	.823	.032	0
Journal of Population Economics	.143	.857	0	0
Theory and Decision	.137	.479	.384	0
European Economic Review	.133	.867	0	0
Public Choice	.129	.354	.517	0
Journal of Industrial Economics	.118	.313	.569	0
Review of Financial Studies	.102	.893	0	.005
Journal of International Economics	.095	.905	0	0
Journal of Labor Economics	.091	.906	.003	0
International Journal of Industrial Organization	.085	.910	0	.005
Southern Economic Journal	.083	.684	.233	0
Energy Economics	.068	.931	.001	0
Theoretical Economics	.049	.904	.047	0
Journal of Law, Economics, & Organization	.047	.953	0	0
Journal of Human Resources	.044	.922	.034	0
Journal of Public Economics	.043	.957	0	0
Annals of Finance	.042	0	.925	.033
Labour Economics	.037	.963	0	0
Journal of Applied Econometrics	.034	.966	0	0
Journal of Economic Geography	.034	.304	0	.662

Table A1b: Results from 1000 runs of the algorithm (cont.)

Journal	4*	3*	2*	1*
Journal of Risk and Uncertainty	.031	.492	.477	0
Journal of the Royal Statistical Society: Series A	.031	.186	.783	0
International Economic Review	.027	.973	0	0
Journal of Business & Economic Statistics	.024	.911	.065	0
Journal of Development Economics	.023	.977	0	0
Oxford Economic Papers	.023	.944	.033	0
Journal of Money, Credit and Banking	.016	.98	.004	0
Journal of Finance	.014	.986	0	0
Economic Journal	.013	.987	0	0
Environmental and Resource Economics	.013	.960	.027	0
Journal of Financial Economics	.013	.211	.771	.005
Review of International Economics	.012	.010	0	.978
World Bank Economic Review	.011	.685	.304	0
Experimental Economics	.005	.995	0	0
Journal of Economic Behavior & Organization	.005	.919	.076	0
Journal of Health Economics	.005	.861	.134	0
Computational Statistics & Data Analysis	.003	.418	.579	0
International Journal of Game Theory	.002	.990	.008	0
Economic Policy	.002	.595	.403	0
Economica	.001	.910	.089	0
Economics Letters	.001	.282	.717	0
Social Choice and Welfare	0	1	0	0
Journal of Mathematical Economics	0	1	0	0
Economic Theory	0	.998	.002	0
Ecological Economics	0	.987	.013	0
The B.E. Journal of Macroeconomics	0	.986	.014	0
Journal of Statistical Planning and Inference	0	.977	.023	0
Journal of Economic Dynamics and Control	0	.884	.116	0
Economic Inquiry	0	.649	.351	0
Oxford Bulletin of Economics and Statistics	0	.613	.387	0
Studies in Nonlinear Dynamics and Econometrics	0	.394	.606	0
Mathematical Social Sciences	0	.385	.615	0
Canadian Journal of Economics	0	.261	.739	0
Journal of Env. Economics and Management	0	.228	.772	0
Journal of Agricultural Economics	0	.138	.783	.079
Management Science	0	.057	.943	0
Journal of Time Series Analysis	0	.012	.988	0
Journal of Int. Fin. Markets, Institutions & Money	0	.012	.988	0
Applied Economics	0	.011	0	.989
Economic Modelling	0	.006	.994	0
Journal of International Money and Finance	0	.005	.995	0
World Development	0	.003	.997	0
Journal of Comparative Economics	0	0	1	0
Journal of Banking and Finance	0	0	1	0
Journal of Empirical Finance	0	0	1	0
Manchester School	0	0	1	0

Table A2a: Journal ranking using randomly assigned initial ranks

Journal	Cumulative proportion	Number of REF submissions
4*		
American Economic Review	1	111
Econometrica	1	69
Quantitative Economics	1	12
Review of Economic Studies	.997	63
Explorations in Economic History	.979	11
Quarterly Journal of Economics	.973	29
Journal of Economic History	.949	13
American Economic Journal: Economic Policy	.932	12
American Economic Journal: Applied Economics	.924	16
Journal of Monetary Economics	.886	42
American Economic Journal: Macroeconomics	.856	11
Journal of the American Statistical Association	.725	5
Econometric Theory	.719	35
International Journal of Forecasting	.652	5
Probable 4*		
American Economic Journal: Microeconomics	.646	16
Journal of Economics & Management Strategy	.634	8
The Econometrics Journal	.614	9
The B.E. Journal of Theoretical Economics	.603	5
Journal of the European Economic Association	.529	71
Journal of Political Economy	.522	24
Possible 4*		
Review of Economics and Statistics	.434	59
Economic History Review	.413	9
Journal of Econometrics	.355	93
RAND Journal of Economics	.353	16
3*		
Economic Journal	1	103
European Economic Review	1	51
International Economic Review	1	28
Journal of Economic Theory	1	80
Journal of Finance	1	6
Journal of International Economics	1	36
Journal of Money, Credit and Banking	1	33
Journal of Public Economics	1	57
Energy Economics	1	5
Social Choice and Welfare	1	14
Journal of Development Economics	1	48
Journal of Mathematical Economics	1	18
Scandinavian Journal of Economics	1	16
Journal of Applied Econometrics	1	24
Games and Economic Behavior	1	79
Labour Economics	1	19
Journal of Population Economics	1	9
Economic Theory	1	49
Experimental Economics	1	8
Journal of Law, Economics, & Organization	1	11
Review of Financial Studies	.999	5
Journal of Labor Economics	.998	13
International Journal of Industrial Organization	.995	16
Environmental and Resource Economics	.995	15
Review of Economic Dynamics	.987	14
Oxford Economic Papers	.983	24

Table A2b: Journal ranking using randomly assigned initial ranks (cont.)

Journal	Cumulative proportion	Number of REF submissions
Journal of Statistical Planning and Inference	.981	5
Journal of Human Resources	.976	7
Journal of Economic Behavior & Organization	.969	42
Journal of Business & Economic Statistics	.951	13
Southern Economic Journal	.949	5
International Journal of Game Theory	.945	11
The B.E. Journal of Macroeconomics	.944	9
Journal of Health Economics	.943	33
Ecological Economics	.939	6
Journal of Public Economic Theory	.937	12
Macroeconomic Dynamics	.914	10
Theoretical Economics	.889	13
Journal of Economic Dynamics and Control	.843	44
Economic Policy	.782	6
Economica	.774	18
Oxford Bulletin of Economics and Statistics	.729	28
Studies in Nonlinear Dynamics and Econometrics	.658	6
Probable 3*		
World Bank Economic Review	.642	5
Economic Inquiry	.641	13
Theory and Decision	.565	13
Possible 3*		
Computational Statistics & Data Analysis	.480	7
Public Choice	.479	14
2*		
Canadian Journal of Economics	1	28
Journal of Industrial Economics	1	6
Management Science	1	6
Review of Income and Wealth	1	6
Journal of Env. Economics and Management	1	11
Journal of Time Series Analysis	1	9
Journal of Comparative Economics	1	8
Economics Letters	1	62
Mathematical Social Sciences	1	8
Journal of International Money and Finance	1	15
Economic Modelling	1	7
World Development	1	7
Journal of Banking and Finance	1	23
Journal of Risk and Uncertainty	1	8
Journal of Empirical Finance	1	5
Journal of the Royal Statistical Society: Series A	1	19
Journal of Int. Fin. Markets, Institutions & Money	1	6
Manchester School	1	10
Annals of Finance	.991	5
Journal of Financial Economics	.987	5
Journal of Agricultural Economics	.920	10
1*		
Applied Economics	1	6
Review of International Economics	1	5
Journal of Economic Geography	1	5

Note: The cumulative proportion is the proportion of times the algorithm has classified the journal in the assigned category or higher.