

# What are the Top Five Journals in Economics? A New Meta–ranking

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## What are the Top Five Journals in Economics? A New Meta–ranking<sup>1</sup>

**Abstract:** We construct a meta-ranking of 277 economics journals based on 22 different rankings. The ranking incorporates bibliometric measures from four different databases (Web of Science, Scopus, Google Scholar and RePEc). We account for the different scaling of all bibliometric measures by standardizing each ranking score. We run a principal component analysis to assign weights to each ranking. In our metaranking the top five journals are given by: *Quarterly Journal of Economics, Journal of Financial Economics, Journal of Economics, Journal of Finance*, and *Econometrica*. Additionally, leaving out the *JEL* as a survey journal and the finance journals in our top 10 we confirm the perceived top-5 journals in the economics profession.

Keywords: meta-ranking, Economics Journals, Aggregation, Citations, Web of Science, Scopus, Google Scholar, RePEcJEL Code: A12, A14

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<sup>&</sup>lt;sup>1</sup>This paper is a completely revised version of Wohlrabe (2016).

## 1 Introduction

Journal rankings have gained more interest, visibility and importance recently. Scientists with publications in high–ranked journals have a higher probability of getting tenure, research funding, or reputation. The number of journal rankings has increased in recent years, which might be due to better data availability, increased competition within the science community and the need for a permanent research evaluation. In this article we compute a meta–ranking of 277 economics journals including 22 individual rankings which are based on bibliometric indicators. The meta–ranking combines the information available in the single rankings. With the introduction of a meta–ranking, we follow other initiatives in scientometrics to provide meta–rankings. For example, Claassen (2015) published a meta-university ranking including the results of important international university rankings. Our ranking approach introduces several new aspects in ranking economics journals:

- We use bibliometric indicators from four different databases (Web of Science, Scopus, Google Scholar, RePEc). This allows us to control for different citations coverage of journals across databases.
- 2. We standardize each ranking score to account for relative differences between journals.
- 3. Our meta–ranking comprises the largest number of individual rankings so far (n = 22).
- 4. We account for potential differences in "importance" of rankings. We model journal quality as a latent process. We run a principal component analysis to assign individual weights to each ranking by extracting loadings on the first factor.

This paper is organized as follows: In section 2 we provide an overview of all previous rankings, especially for general economics journals. The we provide a short descrip-

tion of the citation indexes from the various databases. Section 4 presents our metaranking including some robustness checks. The top five journals of our meta-ranking are: Quarterly Journal of Economics, Journal of Financial Economics, Journal of Economic Literature, Journal of Finance, and Econometrica.

#### 1.1 Existing rankings of economics journals

There are three important issues pertaining to a journal ranking:

The first issue concerns the number of ranked journals. A larger journal list is obviously better, but there are some limits. The selection depends either on the goal of the ranking or the underlying bibliometric database which restricts the choice. The ranking issue might be to find the top 10 journals in economics or the best journals in a specific sub-category, e.g., the best journals in finance. When selecting all journals in the economics category one has to decide how to deal with interdisciplinary journals or journals from related fields. Should, e.g., statistics or sociology journals be included? For instance, the status as a 'top-10 journal' might be lost if a journal list with many interdisciplinary journals is used.

The choice of the bibliometric database is the second issue of a journal ranking. Bibliometric databases provide citations as one of the most important data for bibliometric analysis. Historically, the main source of citation data has been the Thomson Reuters Web of Science (WoS) database with its Citation Indexes (CI) and the Journal Citation Reports (JCR). As we will see later it is still the most often employed source for ranking economics journals. Recently several alternative databases have been developed: Scopus, Google Scholar (GS) and Research Papers in Econmics (RePEc). The main differences between the databases are due to varying journal coverage and matching quality of citations.

The third issue of a journal ranking is the ranking approach. How is the quality or impact of a journal measured? The majority of quality measures depends on citations a journal receives. The most prominent bibliometric indicator is the

Journal Impact Factor (JIF). It was developed by Eugene Garfield who mentioned the idea of this indicator in a *Science* paper from 1955 (Garfield (1955); Garfield (2006)). The indicator measures the average citation rates of journals: For example, the JIF for the year 2008 is based on the average citations in 2008 to the papers published two years before (in 2006 and 2007). Whereas the JIF was initially used to support decisions of libraries to subscribe to journals, it has been used more and more as a proxy for the citation impact of single papers (especially in the area of life sciences). Since citation counts are skewed distributed over the papers in a journal and the mean value is especially determined by the few highly cited papers, this practice has been heavily criticized (Bornmann *et al.* (2012)). Thus, Bornmann et al. (2012) propose not to use the JIF as a proxy of citation impact for single papers, but as a metric to investigate a researcher's ability to publish in reputable journals. According to Wouters et al. (2015) the JIF can possibly be used instead of citation counts, if the impact analysis refers to very recent publications or if the JIF is combined with bare citation counts (to a composite indicator). These three issues lead to the fact that there are numerous journals rankings available and there is no generally accepted single ranking in economics. Table 1 lists all existing ranking studies (we are aware of) that focus on (general) economics journals. This does not rule out that interdisciplinary journals or journals from outside economics are included in the respective ranking. There are further rankings available which focus on specific (sub)disciplines and are not considered in the table: *Finance* (Currie and Pandher (2011) or Oltheten et al. (2005)); Econometrics (Chang et al. (2011a), Ortega and Gavilan (2013)), Public Economics (Pujol (2008)), Health (Haley (2016)), International Economics (Liner and Amin (2004)), Economic History (Vaio and Weisdorf (2010)), Marketing (Steward and Lewis (2010)), and Central Bank Jour*nals* (Kohlscheen (2011)). The table specifies the data sources, the number of ranked journals and the ranking approach. The first ranking was provided by Coats (1971) using information from the American Economic Association (A.E.A.) readings. The

majority of studies draw their bibliometric information from the WoS. Data from GS is used only in the study by Combes and Linnemer (2010). RePEc and Scopus were utilized by Halkos and Tzeremes (2011). Beside surveys, as a measure of the perceived journal quality, citations are still the most important basis for the quality measurement. We show in the next subsection that there are numerous ranking approaches around. The number of ranked journals has increased on average over time, which is certainly due to the better coverage of the journals in the literature databases.

There seems to be a general consensus about the so-called top-5 journals: American Economic Review, Econometrica, Journal of Political Economy, Quarterly Journal of Economics and Review of Economic Studies. This might be traced back to Pieters and Baumgartner (2002) who showed that these journals were the top five in terms of receiving citations from outside the journal, see also Card and DellaVigna (2013), Hamermesh (2013) and Hamermesh (2015).

However, the different approaches based on various databases also come to different conclusions. Liner and Amin (2004) provided first empirical evidence on this point. For the user of journal rankings, it is often not clear which metric should be used among the available solutions (e.g. for an evaluative study). An obvious and robust solution is a meta-ranking that aggregates different rankings. The results of Chang *et al.* (2011b), Yin (2011), and Elkins *et al.* (2010) show that many journal metrics correlate substantially with one another.

### 2 Methods

#### 2.1 Databases

For our meta-ranking we use bibliometric metrics provided by four databases: WoS, Scopus, GS and RePEc. These four databases provide the backbone of citation

Study	Data Source	Ranked	Approach
		Journals	
Coats (1971)	A.E.A. Readings	10	citation counts
Skeels and Taylor (1972)	own sampling	35	standardized citations
Billings and Viksnins (1972)	own sampling	50	citations count from three top journals
Moore (1972)	own sampling	50	authors contributions from top universities
Hawkins et al. (1973)	Survey	87	
Bush <i>et al.</i> (1974)	own sampling	14	citation counts
McDonough (1975)		70	meta ranking of five different rankings
Button and Pearce (1977)	Survey	20	
Kagann and Leeson (1978)	Survey	8	
Bennett et al. (1980)	own sampling	81	relative share of indexed abstracts in the JEL
Liebowitz and Palmer (1984)	WoS	108	relative impact (LP-framework)
Laband and Sophocleus (1985)	WoS	40	citation counts
Pommerehne (1986)	Survey	30	
Malouin and Francois Outreville (1987)	Survey	112	
Diamond (1989)	WoS	50	citation counts
Archibald and Finifter (1990)	WoS	104	regression approach
Enomoto and Ghosh (1993)	Survey	50	regression approach
Laband and Piette (1994)	WoS	130	relative impact (henceforth LP-framework)
Pieters and Baumgartner (2002)	WoS	42	log-multiplicative model of citations
Burton and Phimister (1995)	WoS	42	data envelopment analysis
Barrett <i>et al.</i> (2000)	WoS	144	relative impact (LP-framework)
Bräuninger and Haucap (2001)	Survey	$144 \\ 150$	relative impact (III -framework)
Liner (2002)	Textbooks	30	Citation counts
Kalaitzidakis <i>et al.</i> (2003)	WoS	159	relative impact (LP-framework)
Axarloglou and Theoharakis (2003)	Survey	100	relative impact (LF-manlework)
Palacios-Huerta and Volij (2004)	WoS	42	relative impact (invariant approach)
Kodrzycki and Yu (2006)	WoS	42 181	relative impact (invariant approach)
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Ritzberger (2008)	WoS	261	relative impact (invariant approach)
Vieira (2008)	WoS	168	panel model
Wall (2009)	WoS	30 60	mean/median citations
Engemann and Wall (2009)	WoS	69	citation counts from seven top-journals
Combes and Linnemer (2010)	GS, WoS	1168	combines IF and citations from various sources
Bao <i>et al.</i> (2010)	WoS	22	relative impact (invariant approach)
Koczy and Strobel (2010)	WoS	143	tournament method
Chang and McAleer (2011)	WoS	40	various measures, meta ran-ing
Kalaitzidakis et al. (2011)	WoS	209	relative impact (invariant approach)
Halkos and Tzeremes (2011)	WoS, Scopus, RePEc	229	data envelopment analysis
Bräuninger et al. (2011)	Survey	150	
Stern (2013)	WoS	230	impact factor, uncertainty measures
Laband $(2013)$	GS	248	various citation measures
Hudson (2013)	WoS, other rankings	388	regression approach
Demange (2014)	WoS	37	handicap approach
Chang <i>et al.</i> (2016)	WoS	299	various measures, meta ranking
Vana et al. (2016)	Various	58	various measures, meta ranking
Lo and Bao (2016)	WoS	60	relative impact (invariant approach)

Table 1: An overview of previous rankings of general economics journals

analysis in science in general and especially in economics.<sup>2</sup> There are no other significant citation databases and we there focus on these four. Meho and Yang (2007), Norris and Oppenheim (2007), Mingers and Lipitakis (2010), Neuhaus and Daniel (2008), and Seiler and Wohlrabe (2012) have published detailed descriptions of and comparisons between these databases.

WoS is a multi-disciplinary database provided by Thomson Reuters. The database was originally provided by the Institute for Scientific Information (ISI). The database is subscription-based including a number of citation indexes: The best-known citation indexes are the Science Citation Index Expanded, the Social Sciences Citation Index, and the Arts & Humanities Citation Index. The indexes cover journals, conference proceedings and increasingly book series. The use of the WoS for bibliometric analyses has a long tradition, and the characteristics of the database have been studied in detail (see e.g. Michels and Schmoch (2012); Moed (2006)). Based on WoS data, Thomson Reuters publishes annually the JCR which provides various bibliometric scores for journals. Among others it contains the JIF.

Similar to WoS, Scopus is also a subscription-based database, which is multidisciplinary and includes citations. It was launched in 2004 and is owned by Elsevier. In addition to journals, Scopus covers books, book series, and conference proceedings (Wouters *et al.* (2015)). The database is updated daily and includes publications from more than 14,000 journals and references cited therein since 1969 (de Moya-Anegón *et al.* (2007)). According to the Expert Panel on Science Performance and Research Funding (2012) "Scopus and Web of Science have both been extensively used and tested in bibliometric analyses, and are sufficiently transparent in terms of their content and coverage to be generally useful in assessments of research performance at the field level" (p. 60).

GS is a freely accessible web search engine that indexes the full text of scholarly literature across an array of publishing formats and disciplines (Mingers and Ley-

 $<sup>^{2}\</sup>mathrm{RePEc}$  is covers mainly journals and working papers series in economics. There is no coverage of the natural sciences.

desdorff (2015)). It differs from the well-known search engine of Google in so far as the results are limited to prior scientific information and are based on a wide range of publishers, organizations and scientific databases. Orduña-Malea *et al.* (2014) estimate the size of GS with 160 million documents. According to Wouters *et al.* (2015) the most important strength of GS is as follows: "GS covers a wider range of academic journals and millions of other scholarly-related publications in different languages and countries, making it particularly worth investigating for impact assessment in areas that are not well covered by WoS or Scopus" (p. 71).

RePEc is based on the 'active participation principle', i.e. authors, institutions and publishers register and provide information to the network. It is aimed to gather all citations from listed works and to calculate various rankings. Citations are either automatically extracted from freely accessible documents or volunteers submit references via Internet. The main academic discipline of RePEc is economics but statistics literature is also included. In February 2016, RePEc covered more than 2300 journals.<sup>3</sup>

#### 2.2 Individual rankings

Our starting point is the journal list from the '*Economics*' category of the JCR 2015. It comprises 333 journals.<sup>4</sup> We use only those journals where we have bibliometric scores<sup>5</sup> across all databases. This leaves us with 277 journals. We are of the fact that our choice of the four databases dictates the number of included journals. There was, is and will be always a debate which journals to include in a ranking. This holds especially for interdisciplinary journals or statistics journals. We accessed all four databases (WoS, Scopus, GS, and RePEc) in January and February 2016 and extracted all available metrics for these journals. These metrics are explained in the

<sup>&</sup>lt;sup>3</sup>Bibliometric studies using RePEc data include Zimmermann (2013), Rath and Wohlrabe (2016b), Rath and Wohlrabe (2016a) or Sommer and Wohlrabe (2017).

<sup>&</sup>lt;sup>4</sup>Pons-Novell and Tirado-Fabregat (2010) investigates the impact country-specific journals which are not listed in the JCR.

<sup>&</sup>lt;sup>5</sup>Chang *et al.* (2016) label these scores Research Assessment Measures (RAM).

following.

#### 2.2.1 Web of Science

The metrics from the JCR 2015 refer to the year 2014.

- Two Year Impact Factor 2015 (2YIF): "Total citations in a year to papers published in a journal in the previous 2 years / Total papers published in a journal in the previous 2 years" (Thomson Reuters Web of Science (2014)).
- Five Year Impact Factor (5YIF): "Total citations in a year to papers published in a journal in the previous 5 years / Total papers published in a journal in the previous 5 years" (Thomson Reuters Web of Science (2014)).
- Immediacy index: "Total citations to papers published in a journal in the same year / Total papers published in a journal in the same year" (Thomson Reuters Web of Science (2014)).
- 4. Eigenfactor Score: "The Eigenfactor Score calculation is based on the number of times articles from the journal published in the past five years have been cited in the JCR year, but it also considers which journals have contributed these citations so that highly cited journals will influence the network more than lesser cited journals. References from one article in a journal to another article from the same journal are removed, so that Eigenfactor Scores are not influenced by journal self-citation" (Thomson Reuters Web of Science (2014)). Bergstrom *et al.* (2008) provide detailed explanations on the indicator.
- 5. Article Influence Score: "Total citations, excluding journal self citations, in the past 5 years, weighted by journal quality, divided by the fraction of all articles published by a journal" (Thomson Reuters Web of Science (2014)).

#### 2.2.2 Scopus

We retrieved the data from two websites<sup>6</sup> and obtained four metrics:

- 6. *h*-index (Hirsch (2005)): A journal has published h papers each of which has been cited at least h times.
- 7. Citations per published document: "Average citations per document in a 3 year period. It is computed considering the number of citations received by a journal in the current year 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."
- 8. SCImago Journal Rank (SJR) indicator: "It expresses the average number of weighted citations received in the selected year by the documents published in the selected journal in the three previous years, i.e. weighted citations received in year X to documents published in the journal in years X-1, X-2 and X-3." Guerrero-Bote and Moya-Anegón (2012) provide detailed explanations on the indicator.
- 9. Source Normalized Impact per Paper (SNIP) (Waltman *et al.* (2013)): It is defined as the ratio of a journal's citation count per paper and the citation potential in its subject area.

#### 2.2.3 Google Scholar

For receiving the GS metrics we used the software Publish or Perish by Harzing (2011)<sup>7</sup>. This is a program that retrieves and analyzes academic citations from GS. However, the program processes only 1000 papers per journal. Thus, if the number of articles exceed this threshold, the metrics refer to the best 1000 articles in terms of citation count. We obtained the following seven metrics:

<sup>&</sup>lt;sup>6</sup>http://www.scimagojr.com/ and http://www.journalmetrics.com/.

<sup>&</sup>lt;sup>7</sup>It is available from http://www.harzing.com/pop.htm

- Cites per paper: Average citations per paper without restricting into certain time periods.
- 11. h-index: A journal has published h papers, each of which has been cited at least h times.
- 12. g-index (Egghe (2006)): Given a set of papers ranked in decreasing order of their number of citations, the g-index is the (unique) largest number such that the top g papers received (together) at least  $g^2$  citations.
- 13. Contemporary *h*-index,  $h_c$  (Sidiropoulos *et al.* (2007)): This index considers the age of a paper. For an individual article *i* the score is given by:  $S_i = 4(T(2016) - T(i) + 1) * C(i)$ , where  $T(\cdot)$  refers to years. Thus, the citation number is multiplied by paper age and the factor four as in Sidiropoulos *et al.* (2007). As with the original *h*-index, the  $h_c$ -index is the number of papers that received at least  $h_c$ -citations, whereas the remaining set gets a score lower than  $h_c$ .
- 14.  $h_I$ -index (Batista *et al.* (2006)): It divides the standard *h*-index by the average number of authors in the papers that contribute to the *h*-index.
- 15.  $h_I Norm$ -index (Harzing (2010)): In contrast to the  $h_I$ -index, the paper's citations are normalized by dividing the citation count by the number of authors. The  $h_I Norm$ -index can be interpreted as the *h*-index with normalized citation count.
- 16. AWCR-index (Harzing (2010)): It is the sum of citations divided by the age of all papers in a journal.
- 17. e-Index (Zhang (2009)): It is defined as the square root of the surplus of citations in the h-set beyond the theoretical minimum required to obtain an h-index of h. Suppose 10 papers of a journal have gathered 100 citations each.

The h - index of this set is 10. The sum of the theoretical minimum is 100 citations. The *e*-Index is the square root of the excess citations of 900, i.e. 30. The *e*-index is useful to distinguish between journals with similar *h*-indices.

#### 2.2.4 RePEc

The following five metrics were obtained from the RePEc web page<sup>8</sup>:

- 18. Impact factor (excludes self-citations): The RePEc impact factor differs from the JCR-JIF (see above) in two ways: First, all citations of papers from the whole journal history available in RePEc are included. The WoS only considers citations for a specific year for papers published from the two previous years. Secondly, RePEc considers citations from several indexed series: journals, working papers, books and chapters.
- 19. Relative impact factor: It weighs each citation by the impact factor of the citing items, this impact factor being itself computed recursively in the same fashion. The recursive impact factors are normalized so that the average citation has a weight of 1. The idea of the relative impact factor goes back to Liebowitz and Palmer (1984).
- 20. Discounted impact factor: The discounted impact factor involves a simple adjustment for paper age and is more suitable than the conventional impact factors for evaluating the citation impact of a young journal. Each citation is divided by paper age in years (1 for the current year).
- 21. Discounted relative impact factor: In addition to the definition of the discounted impact factor, it involves a weighting by the impact factors of the citing items.
- h-index: A journal has published h papers, each of which has been cited at least h times.

<sup>&</sup>lt;sup>8</sup>www.repec.org

#### 2.2.5 Some descriptive statistics

Table 2 provides some descriptive statistics for all outlined 22 metrics. There are some metrics that are directly comparable: For example the *h*-index which is available from Scopus (metric 6), GS (11) and RePEc (22). Table 2 shows that the metrics differ in their descriptive statistics. This is due to differences in terms of journal publications and citation coverage of the databases. For each *h*-index metric a different journal is at the top. The GS metrics are dominated by the *Journal of Financial Economics*.

Table 3 reports the correlations between all journal metrics. The values range from 0.27 (metrics 3 and 14) to 0.99 (metrics 11 and 15). Overall, the correlations are quite heterogeneous: about 40% are larger than 0.75 and 8% smaller than 0.5. Therefore we conclude that the metrics, which are methodologically identical or (very) similar across databases, measure mostly similar, but also different aspects of journal quality.

Table 2. Descriptive statistics for 22 journal metrics												
Metric	DB	Mean	Median	Std.	Min	Max	Journal					
1	WoS	1.18	0.97	0.99	0.03	6.65	Quarterly Journal of Economics					
2	WoS	1.62	1.26	1.50	0.05	11.76	Journal of Economic Literature					
3	WoS	0.26	0.17	0.28	0.00	1.67	Oxford Review of Economic Policy					
4	WoS	0.01	0.00	0.01	0.00	0.12	American Economic Review					
5	WoS	1.39	0.72	2.14	0.01	16.07	Quarterly Journal of Economics					
6	Scopus	39.02	31.00	31.01	2	199	Journal of Finance					
7	Scopus	1.38	1.09	1.17	0.06	7.68	Journal of Economic Literature					
8	Scopus	1.35	1.11	1.03	0.14	8.67	Journal of Economic Literature					
9	Scopus	1.68	0.81	2.70	0.11	22.54	Quarterly Journal of Economics					
10	$\operatorname{GS}$	60.16	30.37	86.14	0	771	Journal of Financial Economics					
11	$\operatorname{GS}$	93.37	76.00	70.24	3	454	Journal of Financial Economics					
12	$\operatorname{GS}$	161.43	126.00	132.04	4	870	Journal of Financial Economics					
13	$\operatorname{GS}$	48.59	40.00	34.42	2	228	Journal of Financial Economics					
14	$\operatorname{GS}$	50.90	42.53	38.40	2	229	Journal of Financial Economics					
15	$\operatorname{GS}$	73.30	60.00	55.11	2	335	Journal of Financial Economics					
16	$\operatorname{GS}$	4167	2209	5441	0.66	46935	Journal of Financial Economics					
17	$\operatorname{GS}$	111.86	82.78	99.48	2.45	654.37	Journal of Financial Economics					
18	RePEc	8.09	4.61	11.07	0.05	75.00	Quarterly Journal of Economics					
19	RePEc	0.33	0.11	0.58	0.00	4.03	Econometrica					
20	RePEc	1.65	1.02	2.07	0.02	13.58	Quarterly Journal of Economics					
21	RePEc	0.37	0.15	0.58	0.00	3.57	Journal of Political Economy					
22	RePEc	35.36	26.00	35.39	1.00	231.00	American Economic Review					

Table 2: Descriptive statistics for 22 journal metrics

Notes: This table reports descriptive statistics for 22 journal metrics outlined in subsections 2.2.1 to 2.2.4. Column DB refers to the corresponding database. Column *Journal* refers to the journal which obtained the maximum score.

	Table 3: Correlations between journal metrics																					
		Web	o of Sci	ence			$\operatorname{Sco}$	pus				Goo	gle Sch	nolar					Rel	PEc		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	1.00																					
2	0.95	1.00																				
3	0.58	0.55	1.00																			
4	0.68	0.68	0.42	1.00																		
5	0.84	0.89	0.48	0.72	1.00																	
6	0.75	0.76	0.41	0.79	0.65	1.00																
7	0.96	0.97	0.55	0.68	0.85	0.77	1.00															
8	0.90	0.93	0.49	0.68	0.90	0.74	0.95	1.00														
9	0.84	0.86	0.48	0.78	0.96	0.70	0.85	0.87	1.00													
10	0.63	0.65	0.29	0.74	0.64	0.82	0.65	0.65	0.67	1.00												
11	0.63	0.65	0.30	0.69	0.58	0.89	0.65	0.64	0.61	0.93	1.00											
12	0.64	0.67	0.30	0.70	0.63	0.87	0.66	0.67	0.65	0.95	0.98	1.00										
13	0.72	0.74	0.39	0.74	0.65	0.89	0.74	0.72	0.68	0.90	0.96	0.95	1.00									
14	0.58	0.60	0.27	0.66	0.57	0.85	0.60	0.63	0.59	0.91	0.97	0.97	0.91	1.00								
15	0.62	0.64	0.30	0.68	0.59	0.88	0.64	0.65	0.61	0.93	0.99	0.98	0.94	0.99	1.00							
16	0.65	0.67	0.32	0.76	0.60	0.84	0.67	0.64	0.65	0.95	0.93	0.93	0.95	0.89	0.91	1.00						
17	0.65	0.68	0.29	0.69	0.66	0.85	0.67	0.69	0.66	0.95	0.95	0.99	0.93	0.95	0.96	0.91	1.00					
18	0.75	0.80	0.36	0.67	0.88	0.72	0.77	0.83	0.85	0.71	0.68	0.73	0.73	0.66	0.69	0.69	0.76	1.00				
19	0.68	0.74	0.36	0.67	0.87	0.64	0.69	0.75	0.84	0.66	0.63	0.67	0.69	0.61	0.63	0.66	0.70	0.95	1.00			
20	0.78	0.83	0.40	0.68	0.89	0.68	0.81	0.85	0.86	0.68	0.65	0.70	0.72	0.62	0.65	0.67	0.73	0.98	0.93	1.00		
21	0.70	0.75	0.40	0.66	0.87	0.59	0.72	0.77	0.85	0.61	0.58	0.62	0.66	0.55	0.57	0.62	0.64	0.91	0.96	0.94	1.00	
22	0.69	0.71	0.36	0.83	0.77	0.88	0.71	0.75	0.79	0.81	0.83	0.85	0.84	0.81	0.83	0.80	0.85	0.86	0.82	0.82	0.77	1.00

Table 3: Correlations between journal metrics

Notes: This table documents the correlations between all rankings documented in subsections 2.2.1 to 2.2.4.

#### 2.3 Aggregation approach

Given the 22 bibliometric journal metrics we can transform them into corresponding ordinal ranks. The generalized mean for N different journals rankings  $r_i$  is given by

$$M_p = \left(\frac{1}{N}\sum_{j=1}^N r_j^p\right)^{\frac{1}{p}} \tag{1}$$

For p = 1 we obtain the arithmetic mean, which penalizes low ranks, p = -1 results in the harmonic mean, which favors high ranks. The transformation of scores into an ordinal ranking prior to aggregation has the disadvantage that the true underlying distribution of scores is discarded, i.e. the relative distance between two journals vanishes. Thus, we follow Zimmermann (2013) and calculate the relative distance, i.e. for each ranking the respective score is divided by the maximum score. An alternative, leading to similar results, would be to standardize the scores as suggested by McAllister *et al.* (1983) by applying the z-transformation (see also Vinkler (2006) or Seiler and Wohlrabe (2012) for applications).

The correlations in Table 3 reveal that many metrics are very similar in measuring journal impact. But do they measure one dimension which can be labeled as journal quality? Are there metrics that are more important than others? It is obvious that we cannot set up an objective list from a theoretical point of view given our metrics. The aggregation approaches in equation (1) assume an equal weighting. Vinkler (2006) calls for an appropriate weighting scheme prior to aggregation. But how to choose these weights? Unfortunately, there is no benchmark at which all metrics can be evaluated. Therefore, we follow Seiler and Wohlrabe (2012) and propose to define journal quality as a latent dimension. Each of our 22 metrics can be regarded as an observed representation of this dimension. To extract the weighting, we run a principle component analysis (PCA) to extract the most important components. This method has been used hitherto to classify determinants of research productivity, see for instance Ramesh Babu and Singh (1998), Costas and Bordons (2007), Franceschet (2009), Docampo (2011), and Ortega *et al.* (2011). In this study the factors are used for defining the weights for each metric.

The first factor accounts for about 75% of the variance in journal metrics. The second explains about 11% and the remaining variance is distributed across the other factors. Similar to Seiler and Wohlrabe (2012) we focus on the first factor. The 22 metrics load very similarly on the first factor. The weights are clustered around 4.5%, i.e. the metrics exhibit a similar importance for the aggregated ranking. The only exception is is the Immediacy Index (metric 3) which received a weight of 2.5%.<sup>9</sup>

## 3 Results

#### 3.1 The meta-ranking

The first two columns (PCA) in Table 5 in the Appendix presents our meta-ranking of 277 journals which employs individual weights from the PCA approach for the 22 journal metrics. The top five journals are: *Quarterly Journal of Economics*, *Journal of Financial Economics, Journal of Economic Literature (JEL), Journal of Finance*, and *Econometrica*. Omitting the *JEL* as a survey journal and the three finance journals in the Top 10, we get the generally accepted top five economics journals: *Quarterly Journal of Economics, Econometrica, Journal of Political Economy, American Economic Review* and *Review of Economic Studies*. This is one of our main results: the perceived top journals in the economics profession can be uncovered by aggregating various metrics across different bibliometric databases.

In the last four columns of Table 5 the ordinal ranking for each database separately is reported using the mean of standardized scores, harmonic and arithmetic mean based on individual ordinal rankings. We aggregated the standardized ranking scores by taking the mean and assigned the corresponding ordinal ranks. The table shows that no journal is ranked first across all databases. The *Quarterly Journal of* 

<sup>&</sup>lt;sup>9</sup>The detailed results of the PCA are available from the authors upon request.

*Economics* is ranked first based on bibliometric scores from WoS and Scopus. The *Journal of Financial Economics* is the best journal if the journals are ranked by GS metrics. The *Journal of Political Economy* has the highest scores in RePEc.

Table 4 tabulates the Spearman rank correlations between all meta-rankings from Table 5. It shows that our favorite meta-ranking based on PCA weights is very similar to the ranking based on standardized scores and the arithmetic mean of ordinal rankings. The correlations with the harmonic mean is only slightly lower. Thus, all meta-rankings show similar results. Looking at the association of the aggregated ranking with the database rankings, the correlations remain high but not as high as the aggregated rankings among themselves.

Table 4 also shows the Spearman rank correlations between all four rankings. Whereas the correlation between WoS and Scopus ranking is high, the association between GS/RePEc and WoS is only moderate. This might be due to the fact that GS covers a broad range of document types (whereas the WoS focusses on journals) and RePEc is a field-specific database (whereas the WoS is multi-disciplinary).

T	lable 4:	spearman ra	nk corre	elations	across 1	neta-ran	kings	
	PCA	Percentage	AM	HM	WoS	Scopus	GS	RePEc
PCA	1.000							
Percentage	0.999	1.000						
AM	0.992	0.990	1.000					
$\operatorname{HM}$	0.976	0.982	0.965	1.000				
WoS	0.854	0.873	0.843	0.906	1.000			
Scopus	0.940	0.943	0.934	0.932	0.909	1.000		
$\operatorname{GS}$	0.912	0.902	0.912	0.839	0.647	0.780	1.000	
RePEc	0.899	0.890	0.916	0.881	0.685	0.789	0.795	1.000

 Table 4: Spearman rank correlations across meta-rankings

Notes: This table reports the Spearman rank correlations between the metarankings reported in Table 5. See this table for further details.

#### 3.2 Robustness

Tüselmann *et al.* (2015) pointed out that meta–rankings can be biased due to the arbritraness of included metrics. Therefore, we test the robustness of our meta–

ranking. For the first check we leave out each journal i one at a time. Then we recalculate our meta-ranking. Finally, we obtain 276 different ranks based on the corresponding recalculated meta-rankings for each journal. The results show that the meta-rankings do not significantly change: For the majority of journals the ranking positions remain the same. We observe a maximum ranking position shift of two. As a second robustness check we calculate the meta-ranking 22 times with leaving out one individual metric at a time. Then we take the mean over all these rankings. Figure 1 shows the corresponding boxplots for each journal. The wider the boxplots, the greater the variations due to leaving out a specific ranking. For about 30% of the journals the ranking position remains unchanged. For another roughly 30% the shift is only one ranking position. The largest ranking shift is 33 positions. Among the top 20 journals there is almost no variation. We find variation especially among journals with an intermediate position. Based on these results we conclude that our meta-ranking is robust. These results correspond to the finding in Stern (2013), who presents uncertainty measures for JCR JIFs.

## 4 Discussion

In recent years, many different journal metrics have been proposed, which are intended to overcome some weaknesses of the JCR JIF (Berger and Baker (2014)). For example, citation counts depend on the citation culture in disciplines: In one discipline (e.g. biology) more citations can be expected than in other disciplines (e.g. mathematics). Since the JCR JIF does not consider different citation cultures in its definition, journal metrics have been proposed to overcome the problem (e.g. the SNIP indicator – metric 9). Another approach is to measure the perceived quality or reputation of a journal. This is usually done by conducting a survey. Posner (2000) criticizes the use of citation analysis without referring to characteristics of economists. Palacios-Huerta and Volij (2004) provide a ranking approach that satis-

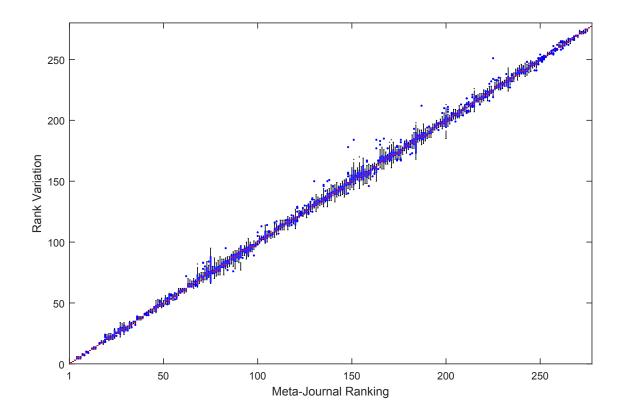


Figure 1: Robustness Check for the meta-ranking

Notes: This figure plots boxplots of ranking positions (y-axis) for each journal (x-axis) by leaving out one ranking for each journal one at a time.

fies some methodological assumptions such as invariance to reference intensity, weak homogeneity, weak consistency, and invariance to splitting the journal list.

The number of journal rankings has substantially increased since 2000. Due to different methodologies, databases and numbers of covered journals the rankings results differ (partly) substantially. A meta-ranking, which aggregates various rankings, is a natural step to account for these differences. Today there are only a few economics meta-rankings available. For example, Chang and McAleer (2011) and Chang *et al.* (2016), aggregate 12 and 15 different rankings, respectively, using the harmonic mean. Implicit meta-rankings, by using different approaches or data sources, can be found in Halkos and Tzeremes (2011). The authors employ a data envelopment analysis approach to measure efficiency of economics journals. Lo and Bao (2016) provide a meta-ranking for 58 journals in the Operations Research and Management Science area. Using paired comparisons and an adaptive lasso estimator they aggregate 31 different rankings. This study provides the most comprehensive new meta-ranking of economics journals introduced up to now. It comprises 22 individual metrics and 277 economics journals. It takes into account both, information from four bibliometric databases and relative differences across ranking approaches. The aggregation approach assigns individual weights from the principal component analysis to each ranking. The top five journals of our final meta-ranking are given by: *Quarterly Journal of Economics, Journal of Financial Economics, Journal of Economic Literature, Journal of Finance,* and *Econometrica.* Acknowledging the *JEL* as a survey journal and taking the finance journals aside we confirm the perceived best five journals in the economics profession: *Quarterly Journal of Economic Studies* and *Economic Review, Journal of Political Economy, Review of Economic Studies* and *Econometrica.* We show that our meta-ranking is robust with respect to the included rankings.

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# Appendix

Table 5: Meta-ranking(s)											
		Aggre	gation	Schemes	Database Rankings						
$\mathbf{PCA}$	Journal	Perc.	$\mathbf{A}\mathbf{M}$	HM	WOS	Scopus	$\operatorname{GS}$	RePEc			
1	Quarterly Journal of Economics	1	1	1	1	1	2	3			
2	Journal of Financial Economics	2	2	2	7	6	1	5			
3	Journal of Economic Literature	3	4	3	2	3	9	4			
4	Journal of Finance	5	3	4	3	2	10	7			
5	Econometrica	4	6	5	5	5	18	2			
6	Journal of Political Economy	6	5	6	9	7	11	1			
7	American Economic Review	7	7	7	4	8	8	9			
8	Review of Financial Studies	8	8	8	10	9	3	8			
9	Review of Economic Studies	9	9	9	12	10	5	19			
10	Journal of Economic Perspectives	10	12	10	11	4	26	11			
11	Journal of Monetary Economics	11	15	12	52	27	6	10			
12	Economic Journal	12	10	13	18	15	12	16			
13	Journal of Econometrics	14	14	11	43	23	4	13			
14	Review of Economics and Statistics	13	11	16	15	12	14	18			
15	Journal of International Economics	15	13	21	31	16	15	$\frac{10}{21}$			
16	Journal of Accounting & Economics	16	16	24	25	11	16	33			
17	Journal of Public Economics	18	17	$\frac{21}{25}$	49	24	17	$\frac{33}{22}$			
18	Brookings Papers On Economic Activ-	17	20	$\frac{20}{20}$	49 14	24 29	43	12			
10	ity	11	20	20	11	20	10	12			
19	Journal of Economic Growth	19	34.5	17	48	37	63	6			
$\frac{19}{20}$	Journal of Economic Theory	21	24	27	59	50	19	$\frac{0}{24}$			
$\frac{20}{21}$	World Development	$\frac{21}{22}$	$\frac{24}{31}$	18	39 41	$\frac{50}{21}$	$19 \\ 13$	$\frac{24}{67}$			
$\frac{21}{22}$	Journal of Labor Economics	$\frac{22}{20}$	19	28	$23^{41}$	$\frac{21}{25}$	$\frac{13}{38}$	14			
$\frac{22}{23}$	Journal of the European Economic As-	$\frac{20}{23}$	$\frac{19}{21}$	$\frac{28}{26}$	$\frac{23}{17}$	$\frac{23}{13}$	$\frac{56}{56}$	$\frac{14}{20}$			
20	sociation	23	21	20	11	10	50	20			
24	Econometrics Journal	26	42	14	130	123	7	35			
$\frac{24}{25}$	Journal of Business & Economic Statis-	$\frac{20}{27}$	42 18	$\frac{14}{31}$	$32^{130}$	$\frac{123}{31}$	25	$\frac{35}{26}$			
20	tics	21	18	51	32	51	20	20			
96		28	07	20	00	40	20	20			
$\frac{26}{27}$	European Economic Review American Economic Journal Macroeco-	$28 \\ 24$	$27 \\ 70.5$	32	$\frac{90}{6}$	$49 \\ 17$	$20 \\ 195$	29			
21	nomics	24	70.5	15	0	17	195	15			
00		00	20	00	20	00	01	1 🗁			
28	Economic Policy	29	32	29 29	39	22	61 154	17			
29	American Economic Journal Applied	25	51	22	8	14	154	23			
20	Economics	91	00	22	0.9	10	0.4	05			
30	Rand Journal of Economics	31	28	33	83	40	24	25			
31	Ecological Economics	30	37	30	24	20	22	74			
32	Journal of Banking & Finance	32	38	34	87	42	21	46			
33	Journal of Financial and Quantitative	34	29	35	76	35	23	41			
24	Analysis		22	~-	10	. –	20				
34	Journal of Human Resources	33	22	37	40	47	29	32			
35	Journal of Environmental Economics	35	23	36	50	28	33	38			
	and Management							~ ~			
36	Journal of Applied Econometrics	36	26	38	53	44	39	27			
37	International Economic Review	39	33	41	84	61	28	30			
38	Journal of Health Economics	38	25	40	29	34	35	45			
39	Journal of Money Credit and Banking	37	34.5	39	61	69	27	36			
40	Journal of Law & Economics	40	36	43	92	70	30	34			
41	Journal of Urban Economics	43	30	47	56	43	37	43			
42	World Bank Economic Review	41	39	46	55	75	45	31			
$\frac{43}{Conti$	Energy Economics	44	40.5	45	33	26	48	73			

Table 5: Meta-ranking(s)

			-	Schemes		Database Rankings			
$\operatorname{Rank}$	Journal	Perc.	AM	HM	WOS	Scopus	$\operatorname{GS}$	RePEc	
44	Transportation Research Part B-	45	54	42	27	18	42	134	
	Methodological								
45	Journal of Economic Behavior & Orga- nization	46	44	52	82	77	31	51	
46	American Economic Journal-Economic Policy	42	87	23	13	19	196	42	
47	Review of Economic Dynamics	47	45	49	65	46	92	28	
48	Journal of Economic Geography	48	40.5	53	26	33	74	$\overline{64}$	
49	Economica	51	55	54	124	94	32	52	
50	Small Business Economics	50	48	57	78	54	34	83	
51	Regional Studies	53	56	59	66	57	36	92	
52	Games and Economic Behavior	54	43	55	85	67	52	47	
53	Experimental Economics	49	50	51	$\frac{38}{38}$	48	113	37	
54	Journal of Economic Surveys	56	47	61	107	45	64	40	
55	Industrial and Corporate Change	55	49	62	71	66	41	71	
56	Journal of Law Economics & Organiza-	57	53	63	108	108	50	39	
00	tion		00	00	100	100	00	00	
57	Journal of Economic Dynamics & Con- trol	58	58	60	133	107	40	44	
58	Transportation Research Part A-Policy and Practice	59	67	58	36	30	65	155	
59	Journal of Industrial Economics	61	57	68	103	98	46	56	
60	Mathematical Finance	60	46	64	62	60	69	62	
61	Oxford Bulletin of Economics and	62	52	70	95	96	57	48	
01	Statistics	0-	0-	••	00	00	0.	10	
62	Oxford Review of Economic Policy	52	72	19	21	122	58	68	
63	Health Economics	65	61	65	42	53	70	107	
64	Cambridge Journal of Economics	64	70.5	75	79	79	47	97	
65	World Bank Research Observer	66	60	73	75	74	77	53	
66	Economic Inquiry	67	62	80	113	92	53	72	
67	International Journal of Industrial Or- ganization	68	59	77	110	87	55	69	
68	Review of Environmental Economics and Policy	63	94	48	16	36	178	78	
69	Economic Development and Cultural Change	73	73	82	122	100	49	87	
70	Econometric Theory	76	63	79	101	101	72	58	
71	Transportation Research Part E-	70	92	66	35	32	94	179	
	Logistics and Transportation Review								
72	Journal of Common Market Studies	74	89	81	77	59	54	172	
73	Economics Letters	81	96	71	166	144	44	75	
74	Journal of Policy Analysis and Management	69	82	72	30	56	85	162	
75	Annual Review of Economics	72	113	44	19	38	255	50	
76	Journal of Regional Science	77	64	85	67	58	76	113	
77	Public Choice	82	85	88	147	116	51	90	
78	Journal of Risk and Uncertainty	80	68	86	98	120	87	49	
79	Land Economics	79	74	92	93	84	62	93	
80	Food Policy	71	91	74	34	52	83	163	
81	International Journal of Forecasting	78	76	89	72	55	79	112	
82	Labour Economics	86	77	91	145	99	78	54	
83	Journal of Economic Psychology	75	83	84	51	102	67	115	

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Rank 84	Journal	Aggregation Sch			Database Rankings			
		Perc.	AM	HM	WOS	Scopus		RePEc
~ -	Journal of Population Economics	83	65	94	96	85	86	63
	Environmental & Resource Economics	87	66	93	91	71	81	86
86	European Journal of Political Economy	91	69	99	111	64	82	84
87	Scandinavian Journal of Economics	88	78	98	126	115	75	66
88	Review of Finance	89	81	83	68	62	108	85
89	Journal of Comparative Economics	90	79	105	89	89	71	94
90	Economics of Education Review	92	80	97	116	86	60	114
91	Imf Economic Review	93	95	69	69	39	206	55
92	Journal of Economics & Management Strategy	94	75	100	119	91	91	65
93	Journal of Empirical Finance	96	84	103	151	106	89	57
94	Pharmacoeconomics	84	110	78	28	51	98	213
95	Economic Systems Research	85	111	56	20	41	169	174
96	Journal of Economic History	97	99	101	123	97	59	142
97	Regional Science and Urban Economics	99	88	108	155	110	73	80
98	Theoretical Economics	95	93	76	70	78	137	70
	Econometric Reviews	98	86	104	104	117	105	61
100	American Journal of Agricultural Eco-	102	101	109	94	65	106	102
	nomics	104	100	114	150	149	cc	109
101	World Economy	104	100	114	159	142	66 07	103
102	Agricultural Economics	100	106	96	54 100	124	97 101	125
	Economic Theory	106	90 195	110	106	104	101	88 50
104	Quantitative Economics	103	125	67 07	58 97	68 02	232	59
	Review of International Political Economy	101	115	95	37	83	99	219
	Resource and Energy Economics	105	97	113	81	72	123	111
	Kyklos	108	104	120	139	128	84	110
	Review of Income and Wealth	107	98	115	88	147	93	98
109	Applied Economics	110	124	116	180	150	68	139
110	Journal of Financial Econometrics	109	102	107	97	133	173	60
111	China Economic Review	111	103	121	129	80	103	131
112	Journal of Evolutionary Economics	113	114	128	149	137	88	121
	Transport Policy	115	117	119	102	63	110	191
114	Journal of Productivity Analysis	116	107	127	157	88	102	118
115	International Tax and Public Finance	118	105	123	142	139	118	77
116	Journal of Financial Stability	114	108	112	86	76	171	96
117	Papers In Regional Science	117	112	129	131	141	95	129
118	Real Estate Economics	120	109	122	176	82	107	122
	Southern Economic Journal	121	122	125	203	165	80	119
120	American Economic Journal- Microeconomics	112	119	90	47	81	218	101
121	Economics & Human Biology	119	121	111	57	73	179	182
122	Work Employment and Society	124	141	132	120	93	96	242
123	Journal of Risk and Insurance	123	118	137	128	90	124	158
124	Journal of Development Studies	127	120	135	148	112	141	105
125	European Review of Agricultural Economics	125	128	140	99	95	138	168
126	Journal of Mathematical Economics	132	116	130	173	166	112	95
$120 \\ 127$	Journal of Agricultural Economics	132	$110 \\ 127$	130	105	100	$112 \\ 156$	144
128	Journal of Transport Economics and	$126 \\ 126$	$127 \\ 130$	$139 \\ 142$	$103 \\ 100$	$103 \\ 143$	$130 \\ 117$	$144 \\ 159$
129	Policy Economics & Politics	133	126	138	164	180	140	76

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	5 – cont. from previous page.	Aggregation Schemes			Database Rankings				
Rank	Journal	Perc.		HM	WOS			RePEc	
130	Feminist Economics	122	146.5	118	63	111	161	189	
131	International Journal of Game Theory	137	132	141	205	177	104	100	
132	Macroeconomic Dynamics	135	123	134	168	152	162	82	
133	Journal of Policy Modeling	136	133	155	163	127	116	149	
134	Journal of Real Estate Finance and Economics	140	131	153	190	138	114	132	
135	International Review of Economics & Finance	129	148	124	73	114	164	188	
136	Review of World Economics	139	134	152	134	130	159	128	
137	New Political Economy	134	154	136	80	109	132	251	
138	Emerging Markets Review	134	139	$130 \\ 143$	121	103	$152 \\ 172$	143	
139	Review of International Economics	143	$135 \\ 137$	$143 \\ 147$	191	170	$112 \\ 120$	99	
135 140	Journal of Regulatory Economics	145	137	158	141	161	$120 \\ 152$	35 117	
140 141	International Finance	$141 \\ 147$	$150 \\ 151$	$138 \\ 145$	$141 \\ 199$	101	$132 \\ 134$	79	
$141 \\ 142$		147	$131 \\ 138$	$\frac{145}{156}$	$199 \\ 183$	$\frac{193}{167}$	$134 \\ 129$	109	
	Empirical Economics	$140 \\ 142$	$138 \\ 129$		$135 \\ 135$				
143	Explorations In Economic History			148		140	144	153	
144	Journal of Forecasting	149	140	161	195	159	115	137	
145	Information Economics and Policy	148	142	159	160	105	151	171	
146	Journal of Economic Inequality	150	135	131	137	125	187	108	
147	Economics of Transition	151	150	160	218	179	119	106	
148	Tijdschrift Voor Economische En So- ciale Geografie	131	178	106	44	135	168	238	
149	Journal of the Japanese and Interna- tional Economies	152	144	162	206	176	122	123	
150	Journal of Housing Economics	145	146.5	146	127	131	167	140	
151	Cambridge Journal of Regions Econ- omy and Society	130	172	50	22	134	215	231	
152	Review of Development Economics	156	145	171	196	153	142	130	
152	Economic Modelling	155	$140 \\ 153$	166	167	$155 \\ 158$	131	165	
155	Journal of Institutional Economics	159	$100 \\ 175$	164	221	204	90	185	
$154 \\ 155$	Federal Reserve Bank of St Louis Re- view	153	149	168	169	171	148	127	
156	Review of International Organizations	144	157	126	64	136	184	216	
$150 \\ 157$	Social Choice and Welfare	$144 \\ 158$	143	120	177	$150 \\ 169$	128	154	
157 158	Journal of Consumer Affairs	$150 \\ 157$	$145 \\ 165$	$109 \\ 167$	118	$109 \\ 121$	$128 \\ 158$	$134 \\ 225$	
$158 \\ 159$	Review of Industrial Organization		$105 \\ 156$	$107 \\ 175$	$110 \\ 178$	$121 \\ 173$	$138 \\ 127$	$\frac{223}{147}$	
159 160	Economic Record	$\begin{array}{c} 154 \\ 162 \end{array}$	$150 \\ 159$	$175 \\ 176$	188	$173 \\ 175$	$127 \\ 125$	$147 \\ 157$	
161	Journal of African Economies		$159 \\ 152$		$100 \\ 202$				
		166		174 170		164	149	136 160	
162	Quantitative Finance	164	155	170	170	168	145	160 120	
163	Economic and Social Review	167	182	151	227	238	111	120	
164	Annals of Regional Science	169	163	184	193	162	130	180	
165	B.E. Journal of Theoretical Economics	172	174	165	262	245	100	138	
166	B.E. Journal of Macroeconomics	170	169	150	249	249	146	81	
167	Marine Resource Economics	163	183	149	74	126	188	255	
168	Australian Journal of Agricultural and Resource Economics	168	162	181	114	146	186	176	
169	Industry and Innovation	176	176	190	209	160	150	169	
170	Journal of Institutional and Theoretical Economics	160	184	157	115	234	121	183	
171	European Journal of Health Economics	161	173	133	60	132	209	245	
172	Manchester School	177	177	177	257	209	126	126	
173	Theory and Decision	175	160	182	179	184	143	177	
	nued on next page.	110	100	104	110	101	1 10		

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	5 – cont. from previous page.	Aggregation Schemes			Database Rankings			
Rank	Journal	Perc.	AM	HM	WOS			RePEc
174	Journal of Macroeconomics	178	168	185	222	186	147	145
175	European Review of Economic History	171	158	163	146	145	200	146
176	Applied Economic Perspectives and Policy	173	170	173	109	119	204	200
177	Fiscal Studies	174	166	186	165	187	165	148
178	Economic Development Quarterly	179	181	194	161	157	160	207
179	Scottish Journal of Political Economy	181	180	189	230	195	136	152
180	German Economic Review	180	164	179	175	163	192	133
181	American Law and Economics Review	183	167	178	194	182	177	135
182	Quantitative Marketing and Economics	182	161	154	125	156	217	161
183	Journal of Economic Issues	186	206	191	220	201	109	228
184	Annual Review of Financial Economics	184	171	117	112	129	268	91
185	International Review of Law and Economics	188	188	196	204	207	139	187
186	Contemporary Economic Policy	190	189	201	225	189	155	178
187	Spatial Economic Analysis	165	186	102	45	178	238	186
188	Journal of Applied Economics	191	187	187	243	259	133	141
189	Journal of Economic Education	187	204	203	172	181	153	217
190	Economics and Philosophy	185	199	198	152	203	157	209
191	Journal of Cultural Economics	192	202	204	212	149	175	203
192	B.E. Journal of Economic Analysis & Policy	193	179	180	207	219	190	124
193	Journal of Economics	189	194	202	144	211	174	194
194	Journal of Agricultural and Resource Economics	194	196	207	185	183	191	175
195	Mathematical Social Sciences	196	197	206	210	212	166	181
196	Open Economies Review	198	193	205	200	190	183	166
197	Computational Economics	197	200	209	189	198	182	173
198	Economic History Review	195	191	183	136	118	225	236
199	Journal of Post Keynesian Economics	203	214	213	255	221	135	211
200	Oxford Economic Papers-New Series	201	185	144	154	151	275	89
201	International Journal of Health Care Finance & Economics	199	195	188	117	148	235	218
202	Cesifo Economic Studies	204	198	208	192	226	185	167
203	Journal of Public Economic Theory	202	190	195	181	210	205	150
204	Review of Economics of the Household	206	192	199	150	205	221	170
205	Finanzarchiv	209	208	214	233	224	181	164
206	Journal of Sports Economics	205	205	212	162	202	194	208
207	Applied Economics Letters	210	210	211	240	225	163	206
208	Pacific Economic Review	200	207	200	138	197	210	193
209	Review of Network Economics	208	203	197	174	255	202	151
210	International Labour Review	211	212	219	215	172	198	214
211	Journal of Forest Economics	212	209	210	143	155	233	232
212	Metroeconomica	213	216	222	197	215	197	198
213	Japan and the World Economy	214	213	220	238	214	193	184
214	Review of Radical Political Economics	215	224	223	217	196	176	249
215	Canadian Journal of Economics	216	201	172	184	154	273	104
216	Agribusiness	218	222	230	201	208	199	223
217	Canadian Journal of Agricultural Eco- nomics	220	219	224	182	191	213	234
218	Studies In Nonlinear Dynamics and Econometrics	219	215	215	231	253	203	156

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RankJournalAggregation SchemesRankJournalPerc.AMHM219Bulletin of Economic Research221226231220InternationalEnvironmental217220218Agreements-PoliticsLaw and Economics224225235221Defence and Peace Economics224225235222American Journal of Economics and Socielogy223234232223Annals of Economics and Finance222218193224History of Political Economy225236236225Geneva Risk and Insurance Review20723387226Journal of Pension Economics & Finance221217216nance227Review of Derivatives Research231227229228World Trade Review229228228228229Developing Economics230237241230China & World Economy226229238231Asian Economic Journal230237241232Asian Economic Papers234231234233Annual Review of Resource Economics233211192234Journal of International Trade & Economic235239240235Review of Economic Design237223225236European Journal of Law and Eco-236241243		Database Scopus 239 188 185 240 254 222 260 218		RePEc 195 248 226 237 116
220International Agreements-PoliticsEnvironmental Law217220218Agreements-PoliticsLawandEco- nomics224225235221Defence and Peace Economics223234232222American Journal of Economics and So- ciology223234232223Annals of Economics and Finance222218193224History of Political Economy225236236225Geneva Risk and Insurance Review20723387226Journal of Pension Economics & Fi- nance227217216227Review of Derivatives Research231227229228World Trade Review229228228229Developing Economics230237241230China & World Economy230237241233Annual Review of Resource Economics233211192234Journal of International Trade & Eco- nomic Development237223225	<ul> <li>132</li> <li>237</li> <li>254</li> <li>211</li> <li>245</li> <li>46</li> <li>214</li> <li>235</li> <li>187</li> </ul>	188 185 240 254 222 260	<ul> <li>229</li> <li>207</li> <li>170</li> <li>241</li> <li>180</li> </ul>	248 226 237 116
Agreements-Politics Law and EconomicsLaw and Economics221Defence and Peace Economics $224$ $225$ $235$ 222American Journal of Economics and Socielogy $223$ $234$ $232$ 223Annals of Economics and Finance $222$ $218$ $193$ 224History of Political Economy $225$ $236$ $236$ 225Geneva Risk and Insurance Review $207$ $233$ $87$ 226Journal of Pension Economics & Finance $227$ $217$ $216$ nance $229$ $228$ $228$ $229$ 228World Trade Review $229$ $228$ $228$ 229Developing Economies $226$ $229$ $238$ 230China & World Economy $226$ $229$ $238$ 231Asian Economic Journal $230$ $237$ $241$ 232Asian Economic Papers $234$ $231$ $234$ 233Annual Review of Resource Economics $233$ $211$ $192$ $234$ Journal of International Trade & Economics $235$ $239$ $240$ $nomic Development$ $237$ $223$ $225$	237 254 211 245 46 214 235 187	185 240 254 222 260	207 170 241 180	226 237 116
222       American Journal of Economics and Sociology       223       234       232         223       Annals of Economics and Finance       222       218       193         224       History of Political Economy       225       236       236         225       Geneva Risk and Insurance Review       207       233       87         226       Journal of Pension Economics & Finance       227       217       216         nance       193       227       227       217       216         nance       229       228       228       229         228       World Trade Review       229       228       228         229       Developing Economies       228       240       242         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economics       235       239       240         235       Review of Economic Design       237       223	254 211 245 46 214 235 187	240 254 222 260	170 241 180	237 116
ciology       223       Annals of Economics and Finance       222       218       193         224       History of Political Economy       225       236       236         225       Geneva Risk and Insurance Review       207       233       87         226       Journal of Pension Economics & Fi- nance       227       217       216         227       Review of Derivatives Research       231       227       229         228       World Trade Review       229       228       228         229       Developing Economies       228       240       242         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economic       235       239       240         nomic Development       7       237       223       225	211 245 46 214 235 187	$254 \\ 222 \\ 260$	241 180	116
224       History of Political Economy       225       236       236         225       Geneva Risk and Insurance Review       207       233       87         226       Journal of Pension Economics & Fi- nance       227       217       216         227       Review of Derivatives Research       231       227       229         228       World Trade Review       229       228       228         229       Developing Economies       226       229       238         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economics       235       239       240         235       Review of Economic Design       237       223       225	245 46 214 235 187	$\begin{array}{c} 222\\ 260 \end{array}$	180	
225       Geneva Risk and Insurance Review       207       233       87         226       Journal of Pension Economics & Finance       227       217       216         227       Review of Derivatives Research       231       227       229         228       World Trade Review       229       228       228         229       Developing Economies       226       229       238         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economic       235       239       240         235       Review of Economic Design       237       223       225	46 214 235 187	260		
226       Journal of Pension Economics & Finance       227       217       216         227       Review of Derivatives Research       231       227       229         228       World Trade Review       229       228       228         229       Developing Economies       228       240       242         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economic Development       235       239       240         235       Review of Economic Design       237       223       225	214 235 187		262	247
nance       227       Review of Derivatives Research       231       227       229         228       World Trade Review       229       228       228         229       Developing Economies       228       240       242         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economic Development       235       239       240         235       Review of Economic Design       237       223       225	$235 \\ 187$	218	202	221
228       World Trade Review       229       228       228         229       Developing Economies       228       240       242         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economic Development       235       239       240         235       Review of Economic Design       237       223       225	187		231	204
229       Developing Economies       228       240       242         230       China & World Economy       226       229       238         231       Asian Economic Journal       230       237       241         232       Asian Economic Papers       234       231       234         233       Annual Review of Resource Economics       233       211       192         234       Journal of International Trade & Economic Development       235       239       240         235       Review of Economic Design       237       223       225		232	219	199
230China & World Economy226229238231Asian Economic Journal230237241232Asian Economic Papers234231234233Annual Review of Resource Economics233211192234Journal of International Trade & Economic Development235239240235Review of Economic Design237223225	242	192	234	243
231Asian Economic Journal230237241232Asian Economic Papers234231234233Annual Review of Resource Economics233211192234Journal of International Trade & Economic Development235239240235Review of Economic Design237223225		229	201	233
232Asian Economic Papers234231234233Annual Review of Resource Economics233211192234Journal of International Trade & Eco- nomic Development235239240235Review of Economic Design237223225	198	223	223	222
233Annual Review of Resource Economics233211192234Journal of International Trade & Economic Development235239240235Review of Economic Design237223225	229	200	222	224
233Annual Review of Resource Economics233211192234Journal of International Trade & Economic Development235239240235Review of Economic Design237223225	251	206	228	205
nomic Development235Review of Economic Design237223225	156	174	271	202
ő	247	252	216	197
~	228	233	236	190
nomics	234	228	212	241
237 Australian Economic Review 239 244 247	253	235	211	240
238 Journal of Media Economics 238 249 248	232	236	208	252
239 Cliometrica 240 221 221	186	220	251	210
240 Journal of Business Economics and 242 246 246 Management	216	199	230	269
241 South African Journal of Economics 243 250 251	261	216	220	239
242 Journal of Economic Policy Reform 232 232 217	140	230	254	215
243 Journal of Economic Interaction and 241 235 237 Coordination	171	217	252	230
244Japanese Economic Review247243245	252	246	226	212
245 Economist Netherlands 246 230 227	208	213	257	192
246Post-Communist Economies249247249	244	227	227	244
247 Economics-the Open Access Open- Assessment E-Journal 248 238 239	219	250	242	201
248Australian Economic Papers250251250	268	261	214	220
249 Panoeconomicus 244 242 233	158	194	259	254
250 Econ Journal Watch 245 248 226	153	241	247	257
251 Portuguese Economic Journal 251 245 244	270	258	239	196
252 Asian-Pacific Economic Literature 252 259.5 259	267	248	224	260
253 Eastern European Economics 253 256 258	266	244	237	250
254 International Journal of Transport Eco- nomics 255 261 261	250	247	243	263
255 European Journal of the History of Eco- nomic Thought 254 255 255	260	237	245	262
256 Australian Economic History Review 256 259.5 260	248	256	246	264
257 China Agricultural Economic Review 258 254 254		021	0.00	0 = 0
258Global Economic Review257258257	213	231	263	270
259 Economia Politica 259 262 263	$213 \\ 224$	$251 \\ 251$	$263 \\ 253$	$270 \\ 261$

			Aggregation Schemes			Database Rankings			
Rank	Journal	Perc.	AM	HM	WOS	Scopus	$\operatorname{GS}$	RePEc	
260	Jahrbucher Fur Nationalokonomie Und	260	257	256	258	263	264	227	
	Statistik								
261	Hitotsubashi Journal of Economics	262	266	265	275	275	240	246	
262	Singapore Economic Review	263	265	266	269	269	244	258	
263	Prague Economic Papers	261	263	262	226	265	258	266	
264	International Journal of Economic The-	265	252	252	263	270	261	229	
	ory								
265	Acta Oeconomica	264	267	267	256	267	248	271	
266	Series-Journal of the Spanish Economic	266	253	253	236	243	276	235	
	Association								
267	Estudios De Economia	267	264	264	272	242	265	253	
268	Asia-Pacific Journal of Accounting &	268	270	270	265	268	250	273	
	Economics								
269	Recherches Economiques De Louvain	270	269	269	274	272	256	256	
270	Politicka Ekonomie	269	268	268	223	257	272	275	
271	History of Economic Ideas	271	273	273	264	277	260	272	
272	Revista De Economia Aplicada	273	272	272	273	264	269	265	
273	Zbornik Radova Ekonomskog Fakulteta	272	276	276	259	271	267	276	
	U Rijeci								
274	Revista De Historia Economica	274	271	271	246	266	274	274	
275	Revue D Economie Politique	275	274	274	276	274	266	268	
276	Hacienda Publica Espanola	276	275	275	271	273	277	267	
277	Revue D Etudes Comparatives Est-	277	277	277	277	276	270	277	
	Ouest								

Table 5 – cont. from previous page.

Notes: This table reports various meta-rankings. *Rank*: Final ranking based on standardized scores and loadings on the first factor of the principal component analysis. The part *Aggregation Schemes* displays different aggregation schemes. *Perc.*: Mean of the standardized scores using relative percentages; AM: Rank obtained by applying the arithmetic mean on the ordinal ranks. *Aggregation Schemes* reports the ranking for each database using the mean of the standardized percentage scores. *WoS*: Web of Science; GS: Google Scholar.