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NEW PERSPECTIVES ON GLOBAL INFORMATION SYSTEMS JOURNAL RANKINGS AND REFERENCE DISCIPLINES

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Abstract

This article overviews the results of the largest, global study focusing on perceived rankings of Information Systems (IS) journals and IS reference disciplines. 8741 faculty were emailed from 414 global IS departments (738 of the emails were not valid). 2559 responses were received for a 32% response rate. This study did not use pre-determined journal lists, but instead required respondents to list their top-four research journals using free recall. Additionally, this study reports journal ratings for the top IS practitioner journals, the most read IS journals, and the top journals for the most common IS reference disciplines. While the results of this study have many potential benefits in defining the current state of the IS field and for helping guide academic evaluations, such studies should not be used as a primary factor in tenure and promotion decisions; instead, such rankings data needs to be used with sound judgment, in conjunction with other ratings methodologies.

Introduction

The purpose of this article is to overview the results of a unique global study on Information Systems (IS) journal rankings and IS reference disciplines. First, the benefits of journal rankings studies are overviewed. Second, a review of previous journal rankings research is presented. Third, based on this literature review, several opportunities for further study are identified, which this research builds on. Fourth, a survey of over 8700 IS academics is described along with its empirical results. Finally, the results of this study are discussed, along with its unique contributions and limitations.

IS journal ranking studies tend to have a galvanizing effect on the IS research community, as some researchers embrace the results as an important source of defining the structure of the field, yet others claim such ratings have a pernicious effect on academic freedom. **While journal ratings can be misused, they can provide several benefits to the IS community:** (1) Journal rankings help researchers know where to find leading research (Hamilton & Ives, 1980). (2) They help researchers find appropriate publishing outlets (Hamilton & Ives, 1980). (3) They encourage improvement and self-analysis by journal editors. (4) They help libraries decide where to invest scarce funds for acquiring journals. (5) They help practitioners know where to discover leading information on IS. (6) They provide a useful source of information for evaluating the quality of an academic's publications for promotion and tenure decisions (Hamilton & Ives, 1980). (7) They provide insights on what academics consider to be the leading journals at any given time, which is useful since the importance of particular journals continually evolves over time.

The two methodologies that are typically used for journal rankings are citation analysis and surveys. To some, citation analysis inherently feels more objective and precise than surveys based on perceptions of experts, because citation analyses are based on empirical data extracted from published journals. Citation analyses are traditionally used to show the productivity of individual researchers or institutions, based on the number of times a given work is cited. However, variations of this research have also been used to help define the top journals in a given field. An example study uses citation analysis to measure journal influence in IS (Cooper, Blair, & Pao, 1993). Holsapple (Holsapple, Johnson, Manakyan, & Tanner, 1994; Holsapple, Johnson, Manakyan, & Tanner, 1993; Holsapple, Manakyan, & Tanner, 1995) ranks journals according to citations for the fields of DSS and Business Computing Research.

One limitation of citation analyses is that researchers still must subjectively define what is and what is not IS research, and then must rate each article in each selected journal as to whether or not it meets the inclusion criteria. Ironically, most citation analyses select a small number of journals to target, based on small, subjective samplings of external experts—limiting the results to those selected journals. Other limitations of citation analysis include that self-citation policies greatly vary by journal, and citations can be biased toward journals that have been existence the longest. Additionally, the number of pages, average number of articles, and the number of times a journal is published each year greatly varies by journal, which can create biases toward journals that are published more often and/or produce more articles, because increased numbers of published works inflates the works that are available for citation. Finally, one or two hallmark articles can be cited disproportionately and distort such rankings.

Turning from citation analysis, surveying IS academics is the most common approach to assess journal quality. One reason for its popularity is that academics make the primary evaluations of each other's journal articles, in making decisions for promotion, general recognition, and tenure. Thus, journal surveys essentially peer into the minds of those who are making such decisions. Table 1 summarizes the major IS-related journal ranking survey studies that have been published (this excludes studies that summarize other studies or provide non-empirical rankings, such as) (Davis, 1980; Nord & Nord, 1995; Nord & Nord, 1990; Robey, Walstrom, Adams, & Swanson, 2000).

Previous surveys have been widely used and have made significant contributions to the IS field; however, they also have room for improvement. First, they often use pre-selected, alphabetized lists of IS journals, which can introduce potential ordering, memory, familiarity, fatigue, and selection biases. For example, some journals may receive higher rankings based on the familiarity of their name or based on early appearance in a journal list. Additionally, the use of large lists can cause fatigue and other unintended results, especially when respondents have vague familiarity with many of the journals, yet choose to rank them anyway. Long lists can also cause many low-quality journals to be ranked that would not otherwise be considered, and such lists can often exclude journals that researchers find salient. On the other hand, such lists can provide significant value in providing a representation distribution of high-quality, medium-quality, and low-quality journals, as seen in (Mylonopolous & Theoharakis, 2001). IS journal rankings may also benefit by including more information, such as demographic data that would allow researchers to remove less-active members of the IS community. It may also be useful to separate journal rankings based on journal type, such as research versus academic; and to provide rankings of journals used by IS researchers who publish in specific reference disciplines, such as Computer Science and Business Administration. Such studies would also benefit by providing more global data, so that differences in world regions can be examined, as seen in (Mylonopolous & Theoharakis, 2001), which is the only journal ranking study that has focused on the global IS community.

Given the opportunities created by previous studies, this research provides another perspective on determining IS journal quality, by extending previous ranking studies in several important ways: (1) Including the largest selection of global respondents ever targeted for such a study. (2) Asking respondents to rank only their top journal choices. (3) Removing respondents who are members of IS departments but do not consider themselves to be active members of the IS academic community. (4) Requiring respondents to use free recall to list their top four IS research journals. (5) Weighting rankings according to rank order of the journals. (6) Including journal rankings for practitioner journals, readership, and the most common reference disciplines for IS researchers.

Survey Method

This section discusses the method that was used to conduct this survey research. First, the targeted participants are described. Next, the instrument and procedures used for this study are reviewed. The results of the analysis are shown in section 3.0, and are then discussed thoroughly in section 4.0.

The target population for this study consists of all active IS academics throughout the world. **Finding appropriate representation of this population proved to be a difficult task.** Most journal rankings have relied on published IS faculty directories, which can suffer from the lack of current data, lack of complete data, and lack of global representation. An effective approach was recently used where researchers targeted both the IS World listserv and the IS Faculty Directory on www.isworld.org (Mylonopolous & Theoharakis, 2001). However, a few issues still exist with this approach: (1) The IS World listserv contains many students, which cannot be directly filtered out. (2) Hundreds of the listings on the IS Faculty Directory are not current or accurate (as seen by the fact that nearly one third of the emails in the Mylonopolous were invalid), because this data is voluntarily created and updated by each participating academic. (3) The names and institutions of those subscribing to the IS World listserv are not publicly available; thus, it is difficult to estimate a correct sample size when significant overlap exists between the IS World listserv and the IS Faculty Directory.

Table 1. All Major IS Journal Ranking Survey Studies

Who/When	Key Aspects of the Study	Journal Selection	Respondent Selection	Participation
Hamilton & Ives, 1980	Combined journal rankings survey with citation analysis of productivity. Journal survey asked participants to rate how each journal contributes to the MIS field and the extent to which they are read.	Used a predetermined list of 37 journals	Targeted 291 MIS experts, as determined by the authors.	110 responses (37.8% response rate)
Vogel & Wetherbe, 1984	Asked respondents for the academic journals they prefer to publish in. Ranked journals in descending order and weighted according to the ranking order. provided empirical data to show what journals the top IS programs were publishing in.	n/a	291 IS experts were selected.	110 responses (37.8% response rate)
Doke & Luke, 1987	Asked for top-10 IS; computed a popularity/familiarity index and an importance/prestige index.	Used a predetermined list of 29 journals	Sent to 243 Deans of US/Canada AACSB schools who distributed to their IS faculty. Only 93 of the schools had IS departments.	29 schools responded with 82 usable responses (31% corrected rate)
Koong & Weistroffer, 1989	Asked respondents to list the three most used journals for acquiring MIS information and the three most used for publishing.	Used a predetermined list of 70 journals, allowed write-ins	Used published directory of MIS faculty (using a sequential random sample of 500).	144 people responded (28.7% response rate)
Gillenson & Stutz, 1991	Assessed attitudes of professors on the academic quality of MIS journals based on their value in reviews of research and performance of individual MIS researchers.	Used a predetermined list of 80 journals	Selected department chair or most senior person from 269 US/Canada AACSB accredited business schools.	135 respondents (50.2% response rate)
Whitman, Hendrickson, & Townsend, 1999	Asked respondents to rate journals as top, high, medium, low, and nil (assigned numerical value); also asked for tenure and promotion related data	Used a predetermined list of 80 journals	Sent survey to 432 department heads in US/Canada, using 1995 directory of MIS faculty.	184 responded (43% response rate)
Walstrom & Hardgrave, 2001	Extended their earlier studies (Walstrom, Hardgrave, & Wilson, 1995; Hardgrave & Walstrom, 1997). Asked each respondent to numerically rate each journal on its appropriateness to MIS on a scale of one to four.	Latest study had pre-determined 15 journals and 13 conferences	Targeted only US/Canadian respondents.	350 responses
Mylonopolous & Theoharakis, 2001	Asked for top-10 journals in 1st tier and top-10 journal in 2nd tier, and most read journals. First global survey; also students.	Used a predetermined list of 87 journals	Emailed 3855 academics from ISWorld faculty directory, including students; 1094 emails were not valid.	979 usable responses; (35.5% corrected response rate)
This study	Produced the largest, global study; primary focus on top-tier journals; adds top journals for reference disciplines, top read journals, and top practitioner journals.	Did not use predetermined lists; uses free recall of top journals	414 global IS departments; emailed 8741 faculty; 738 emails were not valid.	2559 responses (32% response rate); 1752 fully active in IS

Given the sampling challenges experienced in previous studies, we chose a new sampling method by building a list of IS academics, by visiting the websites of all 414 global departments listed on the AIS (Association for IS) directory and extracting all IS-related faculty members. Given the multidisciplinary nature of the field, we surmised this approach would not only find most of the active IS academics in the world, but would also extract many of their colleagues who are in IS departments but do not consider themselves an active part of the field. In this way, we chose to over sample the population and then let academics identify their activity in IS (with those not involved in IS to be most likely not to respond). This was a useful approach because trying to determine from online vitas whether or not a person is an active IS academic is highly subjective (e.g. several academics may publish in IS journals on occasion but do not consider IS to be their main discipline, and many IS academics also publish in non-IS journals).

Our approach appears to be highly successful—we created a large target sample of 8741 individuals and achieved a high response rate. These individuals were solicited by email to participate in the web-based survey. Of these, 738 email addresses were invalid (8.4%), leaving 8003 valid email recipients—which suggests the department listings we used were more current than the IS World Faculty directory. From the valid list of 8003 participants, 2559 responses were received. This represents a response rate of 32%, which is notable especially considering many of the sampled targets may not be members of the IS field who chose not to respond to an IS survey.

By achieving a high response rate of the global population of IS academics, this study provides insights into the composition of IS departments throughout the world. The vast majority of the 2559 respondents were male and Caucasian. The gender distribution in the departments is 79.3% male and 20.7% female. Of these respondents, only a slight majority consider themselves to be primarily aligned with the field of IS—significant minorities consider themselves to be members of CS and Business academic communities, even though they reside in IS departments. To provide the most relevant and reliable results to the IS community, only respondents who considered themselves primarily aligned with the IS field and have Ph.D.'s were included in the journal ranking results (students, inactive IS researchers, and those not holding Ph.D.'s were excluded). Thus, the number of responses that were used for journal rankings decreased from 2559 to 1572. Nearly half of the selected respondents were senior faculty (full or associate professors).

The instrument that was used was a web-based survey that not only examined journal rankings, but also probed for extensive, global demographic information, such as levels of activity in the IS field. Three general notices were sent out to the participants over a period of several weeks to encourage them to participate in the study. Because sensitive demographic data was solicited, respondents were allowed to respond anonymously. Measures were taken to remove multiple submissions from the same computer to prevent “ballot stuffing” or accidental duplicate submissions.

Survey Analysis

The primary analysis conducted by this research was to assess the top perceived IS journals. Participants ranked up to four choices as to what they perceive to be the top IS research journals. All rankings were weighted as follows: first place received four points, second place received three points, third place received two points, and fourth place received one point. Table 2 summarizes the top-25 research journals for all world respondents (Appendix 1 lists the abbreviations used in this study). Table 3 compares the summary of world results of this study versus several previous journal ranking studies (See Appendix for Tables 3 and 4). Table 4 shows the top-rated practitioner journals. Table 5 shows the most read journals, both practitioner and research.

In addition, respondents were asked to optionally name their most frequently used reference or support disciplines, and the top-two journals for publishing in these disciplines as an active IS researcher. While not all respondents completed this information, the results still provide valuable information on the most common IS reference disciplines and reference discipline journals that IS researchers publish in. Table 6 shows that the top reference discipline for IS researchers throughout the world is Computer Science, the second is Business, and the third is Behavioral Science. Tables 11-13 list the top journals for the top seven reference discipline in which active IS researchers publish (journals for the remaining disciplines are not listed as the number of respondents for each discipline was less than 50; only journals with weightings greater than six are listed).

Table 2. Journal Rankings by World Regions

Rank	World	Weight	North America	Weight	Australasia	Weight	Europe	Weight	Other	Weight
1	MISQ	2277	MISQ	1431	MISQ	401	MISQ	255	MISQ	155
2	ISR	1806	ISR	1277	ISR	250	ISR	152	ISR	91
3	JMIS	649	JMIS	512	CACM	71	CACM	58	CACM	33
4	MS	598	MS	459	JMIS	70	EJIS	39	MS	32
5	CACM	457	CACM	287	MS	70	ISJ	28	JMIS	26
6	DSCI	139	DSCI	121	I&M	27	JMIS	28	I&M	13
7	DSS	134	DSS	104	EJIS	24	MS	21	IEEEET	10
8	IEEEET	116	IEEEET	67	IEEEET	24	HBR	19	ACMT	9
9	I&M	90	OS	46	ACMT	21	WIRT	19	DSCI	9
10	ACMT	82	JAIS	44	ISJ	20	ACMT	15	JSIS	8
11	EJIS	76	I&M	41	JAIS	18	IEEEET	15	ISJ	6
12	JAIS	67	ACMT	36	DSS	10	I&O	14	DSS	5
13	ISJ	66	JOC	29	JIS	9	ISYS	13	IM	5
14	OS	59	OR	27	DSCI	8	JSIS	13	JAIS	5
15	HBR	41	JCIS	20	JSIS	8	DSS	10	ACMTCS	4
16	JOC	36	IEEEETSE	16	IEEEES	7	ACMTOIS	9	ACMTODS	4
17	OR	34	JIS	16	IJEC	7	OS	9	ASQ	4
18	JSIS	33	DATA BASE	14	IT&P	7	I&M	8	HBR	4
19	JIS	31	HBR	13	ISYS	7	ACMTOCHI	7	IT&P	4
20	I&O	24	IEEEEC	13	JIT	7	HCI	7	ISOC	4
21	ISYS	24	ISJ	12	JITM	6	EM	6	JINF	4
22	IEEEETSE	23	SMR	12	JACM	5	IM	5	OR	4
23	JCIS	22	CAIS	10	MISQE	4	JIT	5	ACMTODS	3
24	WIRT	19	ACMTOC HI	9	IP&M	4	IEEEES	4	AMR	3
25	IEEEEC	17	ASQ	8	JOC	4	INFSJ	4	EJIS	3

Table 3. This Study Compared to Other Ranking Studies

Rank	This study	(Mylonopolous & Theoharakis, 2001)	(Whitman et al., 1999)	(Hardgrave & Walstrom, 1997)	(Holsapple et al., 1994)	(Gillenson & Stutz, 1991)
1	MISQ	MISQ	MISQ	MISQ	MISQ	MS
2	ISR	CACM	MS	ISR	CACM	MISQ
3	JMIS	ISR	CACM	MS	MS	CACM
4	MS	JMIS	ISR	CACM	HBR	DSCI
5	CACM	MS	DSCI	JMIS	I&M	JMIS
6	DSCI	IEEEET	JMIS	DSCI	JMIS	JACM
7	DSS	HBR	HBR	IEEEETSE	SMR	ACMT
8	IEEEET	DSCI	IEEEET	OS	Datamation	IEEEET
9	I&M	DSS	SMR	HBR	IEEEETSE	ACMCS
10	ACMT	I&M	JACM	DSS	DSCI	HBR
11	EJIS	EJIS	IEEEEC	ACMTODS	ASQ (tied 11 th)	IEEEEC
12	JAIS	SMR	ACMT	IEEEET	DSS (tied 11 th)	I&M
13	ISJ	ACMT	DSS	SMR	AMJ	SMR
14	OS	DATA BASE	ACMCS	ACMCS	ComputerWorld	JISM
15	HBR	OS	I&M	AMJ	ACMCS	ISYS
16	JOC	ISJ	ISYS	ASQ	JSM	IRMJ
17	OR	AMJ	DATA BASE	ACMT	Interfaces	JSM
18	JSIS	CAIS	JISE	OR	AI	JIM
19	JIS	IEEEEC	Interfaces	AMR	ACMTODS	ACMSIG
20	I&O	JSIS	IJHCS	I&M	AMR	JCIS
21	ISYS	ASQ	JDM	OBHDP	Database	JISCI
22	IEEEETSE	AMR	JIM	IJHCS	DATA BASE	JCSS
23	JCIS	IJEC	OR	HCI	IJHCS	IP&M
24	WIRT	ACMCS	Omega	Omega	OR	SP&E
25	IEEEEC	AMIT	JISCI	JSIS	IEEEEC	CJ

Table 4. Top 15 Gobar Pactitioner Journals

Rank	Journal	Weight
1	Comm. of the ACM (CACM)	344
2	Harvard Bus. Review (HBR)	273
3	Sloan Mgt Review (SMR)	128
4	ComputerWorld (CW)	71
5	CIO	55
6	InformationWeek	41
7	IEEE Computer (IEEEEC)	36
8	Interfaces	32
9	Datamation	17
10	IEEE Software (IEEEES)	17
11	MISQE	16
12	DATA BASE	15
13	IBM	13
14	InfoWorld	12
15	CAIS	10

Table 5. Top 15 Globally Read Journals

Rank	Journal	Weight	Journal type
1	ISR	84	Research
2	MISQ	69	Research
3	CACM	48	Practitioner/research
4	JMIS	26	Research
5	HBR	24	Practitioner/research
6	MS	20	Research
7	SMR	20	Practitioner/research
8	IEEEEC	16	Practitioner
9	DSS	14	Research
10	DSCI	12	Research
11	I&M	11	Research
12	CW	10	Practitioner
13	CIO	9	Practitioner
14	JCIS	9	Research
15	OS	8	Research

Table 6. Most Common Global IS Reference Disciplines

Rank	Reference Discipline Category	Sub-disciplines	N (%) Total= 1274	Weight	Table with Journal Rankings
1	Computer Science	Computer Science, Software Engineering, Databases, Artificial Intelligence, Knowledge Management, Security, Data Mining, Systems Architecture, Networking, and Data Warehousing.	257 (20%)	381	Table 7
2	Business	Business, Business Administration, Strategy, Marketing, Management Science, Finance, and International Business.	239 (19%)	369	Table 8
3	Behavioral Sciences	Psychology, Sociology, Social Psychology, Cognitive Psychology, Communication, Cognitive Science, Behavioral Science, Social Sciences, Behavioral Psychology, and Collaboration.	190 (15%)	269	Table 9
4	Organization Sciences	Org. Behavior, Org. Theory, Org. Science, Org. Psychology, Org. Development, and Org. Learning.	122 (10%)	200	Table 10
5	Decision Sciences	Decision Science, Decision Support Systems, Operations Management, Operations Research, Decision Theory, and Optimization.	101 (7.5%)	148	Table 11
6	IS specialty fields	IS Strategy, IS Development, IS Planning, IS Project Management, IS Management, International dimensions of IS, Global IS, and Management of Technology.	97 (7.5%)	164	n/a
7	Economics	Economics, Information Economics, and Evolutionary.	78 (6%)	124	Table 12
8	E-commerce	E-commerce, E-business, M-commerce, E-commerce Strategies, and Electronic Markets.	60 (5%)	95	Table 13
9	HCI	HCI, CSCW, Usability, End-user computing, and Human Factors.	36 (3%)	51	n/a
10	Other	Other	25 (2%)	32	n/a
11	Education	Education, E-learning, Distance Education, End User Training, IS Education, and Innovative Education.	22 (2%)	28	n/a
12	Philosophy	Ontology, Philosophy, Ethics, Philosophy of Science, Phenomenology, Policy and Ethics, Law, and Semiotics.	17 (1%)	28	n/a
13	Accounting	Accounting, Accounting Information Systems, Auditing, Management Accounting	15 (1%)	24	n/a
14	Informatics	Informatics, Information Science, Information Quality, Information Theory, and Information Policy.	11 (<1%)	17	n/a
15	Health	Healthcare, Health Care Management, and Medical Informatics.	4 (<1%)	7	n/a

Table 7. Top CS Journals for IS

Rank	Journal	N (total=193)	Weight
1	CACM	28	48
2	IEEEET	23	35
3	ACMT	16	24
4	IEEEETSE	11	19
5	ACMTODS	9	17
6	IEEEETKDE	6	9
7	IEEEEC	4	7
8	Other journals	96	n/a

Table 8. Top Business Journals for IS

Rank	Journal	N (total=221)	Weight
1	AMJ	43	67
2	MS	27	40
3	AMR	19	29
4	ASQ	14	23
5	HBR	9	16
6	Strategic Management Journal	9	14
7	OS	10	13
8	Journal of Marketing	6	10
9	SMR	5	8
10	Other journals	79	n/a

Table 9. Top Behavioral Science Journals for IS

Rank	Journal	N (total=81)	Weight
1	JAP	11	20
2	OS	5	9
3	OBHDP	5	7
4	Other journals	60	n/a

Table 10. Top Organization Journals for IS

Rank	Journal	N (total=127)	Weight
1	OS	34	57
2	ASQ	20	29
3	AMJ	18	28
4	AMR	13	18
5	MS	4	8
6	OBHDP	3	6
7	Other journals	35	n/a

Table 11. Top Decision Science Journals for IS

Rank	Journal	N (total=74)	Weight
1	MS	13	24
2	DSS	10	19
3	DSCI	10	17
4	OR	8	11
5	JOC	4	7
6	Other journals	29	n/a

Table 12. Top Economics Journals for IS

Rank	Journal	N (total=75)	Weight
1	AER	14	26
2	MS	13	24
3	Other journals	48	n/a

Table 13. Top e-Commerce Journals for IS

Rank	Journal	N (total=56)	Weight
1	IJEC	12	22
2	MISQ	5	9
3	EM	5	7
4	JMIS	5	6
5	ISR	4	6
6	MS	4	6
7	Other journals	21	n/a

Discussion

This study reveals some unexpected insights into the makeup of global IS departments, which further highlight the need to target active IS academics for such studies. The demographic data from this research indicate that global IS departments house many academics who have little or no involvement in the IS, as evidenced by the fact 2559 faculty responded from the 414 IS-related departments, yet only 1572 consider themselves to be active in the IS field and hold Ph.D.'s. The excluded academics who are not students often teach IS classes but do not actively contribute to IS conferences and journals. On the positive side, the data indicate that the IS field is highly dynamic and multidisciplinary, with many active IS researchers having joined the field from other disciplines.

This research also contributes to the understanding of IS journal quality by summarizing opinions of active IS researchers throughout the world, and by breaking down the results by major world regions. This data reveal that there is general global agreement that MISQ and ISR are the top IS research journals. The data also create clear quality delineations between journals. For example, MISQ and ISR are clearly the leaders in overall IS research, while JMIS, Management Science (MS), and CACM provide the next tier of leading research journals. Moreover, the data reveal salient differences among world regions. North America, because of the large presence of active IS researchers, wields a strong overall influence (and bias) to the overall world rankings. North American academics tend to favor decision-science and MS oriented journals (e.g. DSCI, DSS, and MS) much more strongly than other academics. CACM is losing favor in North American more rapidly than other regions. European academics appear to favor more behavioral and practitioner journals than North American researchers.

By comparing this study to previous journal ranking studies (as seen in Table 3), several other important trends can be deduced. MISQ and ISR have persistently maintained their preeminent positions of intellectual leadership in the IS field over the past several years, with MISQ universally being considered the top IS research journal. JMIS and DSS have consistently moved up in prestige over time, while CACM and MS are slowly starting to drop in IS research importance (likely because of the increase in “pure” IS journals in recent years). Various IEEE transactions (IEEE T) and various ACM transactions (ACMT) continue to be considered top outlets, especially in specialized areas such as databases and software engineering. Three journals are rapidly moving up in importance and are on a trajectory to challenge the leading IS journals: Information and Management (I&M), European Journal of IS (EJIS), and Journal of the AIS (JAIS). The rise of JAIS, in particular, has been meteoric (except in Europe), which is likely attributable to its outstanding editorial board and strong association with the Association of IS (AIS), which has become the pre-eminent IS research organization. Several journals are significantly dropping in stature for IS research, such as: HBR, Sloan Management Review (SMR), and DATA BASE. Possible explanations for these change include that these journals treat IS as a special topic, while several newer journals, such as ISR and JMIS, have emerged to focus solely on the IS discipline.

This research also provides valuable insights into journal quality rankings by separating research and practitioner journal rankings. The data indicates that several journals appear to be hybrid journals, where they can be argued to represent both research and practitioner perspectives, as demonstrated by the fact they rank highly on both the research and practitioner rankings. Examples of hybrid journals include CACM, HBR, and SMR—with MISQ Executive (MISQE) and Communications of the AIS (CAIS) rapidly rising as quality hybrid journals. The results also indicate the top academic journals and top practitioner journals are the most highly read, and thus, are more likely to yield influence. While the IS research focus is less with CACM, HBR, and SMR than with journals such as ISR and MISQ, they are still highly read, and thus, are still highly influential. Moreover, ISR is read more than MISQ, which may indicate it is gaining ground on MISQ in terms of influence. Finally, while JAIS is a rising research journal, it is auspiciously absent from the top-25 reading list. In fact, the only electronic journal on the most-read list is CAIS, suggesting possible issues with access and/or readership influence of such electronic IS journals.

This research also provides a useful picture of the leading IS reference disciplines. Typical IS journal rankings do not incorporate well the most common IS reference disciplines (including sub-disciplines and research communities). For example, HCI and AI journals rarely appear highly in overall IS journal rankings, yet several of these journals are considered to be high quality in these fields. Thus, the reference journal rankings from this study not only provides unique insights into the structure of the IS field, but also provide useful information on the top reference discipline journals in which active IS researchers publish.

Despite the contributions of this research, it still has several limitations and areas for improvement. First, the results are based on perceptions of active IS researchers from survey data. This study does not widely use or consider other salient elements that can be used to define journal quality. Another key limitation is that the focus on selecting top journals creates a distribution that does not represent well middle-tier and low-tier journals. For example, a broader representation of high-, middle-, and low-tier journals is given by (Mylonopolous, 2001). Additionally, while the data on top journals for the primary IS reference disciplines are useful, it has limited generalizability because of the fragmented responses that occurred from the large distribution of reference disciplines. Furthermore, the large presence of active IS researchers in North America wields a strong overall influence (and bias) to the overall world rankings. On the other hand, this likely reflects on the reality of the IS world, especially considering a large portion of international IS researchers received their Ph.D. from U.S.-based institutions. Another possible issue is that since respondents declared their primary disciplines and reference disciplines, some biases may have occurred due to differences in terminology or due to their departments’ naming conventions. Future research should likely delve into this potential issue to help further understand global discipline naming conventions.

Conclusion

The results of this study, and the results any other rankings study, need to be used with caution and sound judgment, in conjunction with other forms of ratings data. Because no one study can realistically address all the elements of journal quality that are salient to all IS researchers and institutions, it may be most useful to conduct multiple ranking studies over time from different perspectives, from which IS researchers can use sound judgment to draw conclusions. Thus, this research reports IS journal rankings that are intended to be used in balance with previous ranking studies and other criteria, such as citation analysis, editorial board composition, rejection rates, and audience size. Thus, the results of this study should not be considered as the decisive perspective on journal rankings, but rather another perspective to be used judiciously.

While IS journals rankings studies can provide many benefits to the IS community, they also can be misused. **Using journal rankings as part of tenure and promotion decisions may be the most controversial and abused application of journal rankings.** In evaluating the quality of an academic's contribution to research, several approaches can be used: (1) evaluating the quality of the journals in which their articles appear; (2) counting the number of times one's works have been cited by others; (3) having external experts qualitatively evaluate the quality and contribution of one's articles; (4) counting the number of articles published by the academic; (5) evaluating external impact of one's work in terms of adoption by practitioners, use in classroom texts, patents, and citations by national press and television. All of these approaches are potentially flawed, especially when used as a sole or primary methodology, and can lead to misuse and unintended consequences. For example, while citation analysis can be effective in determining whether or not a work has any impact on other research, it is prejudiced by time. For example, most works that are considered "seminal" rarely achieve this status within the relatively short period it takes to make tenure and promotion decisions.

Inappropriate use of journal rankings can create other problems in promotion and tenure decisions. Articles are commonly judged in the short-term by the quality of the journal outlet in which it appears. This tends to be a useful heuristic because high-quality journals are more likely to produce influential work than lower-quality journals. High-quality journals have the most visible and credible editorial review boards who insist on the highest intellectual standards. Additionally, as shown in this study, high-quality journals tend to have high readership, which also increases the probability of influence. Thus, because the true impact of a work takes years to develop, journal quality provides a useful surrogate for article quality in the short term. However, not everything that appears in a high quality journal is equal in quality and importance. Some works that appear in highly quality journals quickly fade into obscurity, and have no lasting influence on the academic community. Conversely, not everything in a lower quality journal is of low quality. Some innovative and highly influential works are published in lower-quality journals because they did not fit the intellectual paradigms or requirements of higher quality journals. Also, several researchers prefer to publish much of their work in lower quality journals, especially after they have become established in the IS community, because they can publish their ideas much more quickly than in high quality journals, which are notorious for lengthy, laborious review cycles.

Given the potential abuses of using journal rankings as a sole or primary basis of academic evaluations, we advocate the use of multiple evaluation methods, including the use of journal rankings. While some may consider journal rankings inherently dangerous, IS academics cannot escape the fact that academia is filled with subjective peer evaluation. We subjectively evaluate our students, we subjectively review and critique each others work, and we subjectively evaluate each other for promotion, reward, and tenure decisions. In evaluating the research of our peers, we can make these decisions blindly or use as many objective, external sources as possible to make better informed judgments. Journal rankings can help provide key evidence in this regard, but should not be the primary evidence.

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Appendix 1. Journal Abbreviations

AMIT (Accounting, Management, and IT)	IM (International Journal of Information Management)
ACMCS (ACM Computing Surveys)	ISOC (Information Society)
ACMSIG (various ACM SIG publications)	INFSJ (Informing Science Journal)
ACMT (various ACM Transactions)	Interfaces (the Interfaces journal by INFORMS)
ACMTCS (ACM Transactions on Computer Systems)	IP&M (Information Processing and Management)
ACMTOCHI (ACM Trans. on Computer-Human Interaction)	IRMJ (Information Resources Management Journal)
ACMTODS (ACM Transactions on Database Systems)	ISJ (Information Systems Journal)
ACMTOIS (ACM Transactions on IS)	ISR (Information Systems Research)
ACMTSE (ACM Trans. on SE and Methodology)	ISYS (Information Systems)
AER (American Economic Review)	IT&P (Information Technology and People)
AI (Artificial Intelligence)	JACM (Journal of the ACM)
AMJ (Academy of Management Journal)	JAIS (Journal of the AIS)
AMR (Academy of Management Review)	JAP (Journal of Applied Psychology)
ASQ (Administrative Science Quarterly)	JAR (Journal of Accounting Research)
CACM (Communications of the ACM)	JCIS (Journal of CIS)
CAIS (Communications of the AIS)	JCMC (Journal of Computer-Mediated Communication)
CIO (CIO Magazine)	JDM (Journal of Database Management)
CMR (California Management Review)	JEC (Journal of Electronic Commerce)
CJ (Computer Journal)	JECR (Journal of Electronic Commerce Research)
CHDMP (Computers in Human Decision Making Processes)	JEUC (Journal of End User Computing)
DSCI (Decision Sciences)	JIM (Journal of Information Management)
DSS (Decision Support Systems)	JIS (Journal of Information Systems)
ECR (E-commerce Research)	JISE (Journal of Information Systems Education)
EJIS (European Journal of IS)	JISM (Journal of Information Systems Management)
EJOR (European Journal of Operations Research)	JIT (Journal of IT)
EM (Electronic Markets Journal)	JITM (J IT Management)
GDN (Group Decision and Negotiation)	JMIS (Journal of MIS)
HBR (Harvard Business Review)	JOC (Journal on Computing)
HCI (Human-Computer Interaction)	JOCEC (Journal of Org. Computing & e-Commerce)
I&M (Information and Management)	JCSS (Journal of Computer and System Science)
I&O (Information and Organization)	JINF (Journal of Informatics)
IBM (IBM Systems Journal)	JISCI (Journal of Information Science)
IEEEC (IEEE Computer)	JSM (Journal of Systems Management)
IEEEES (IEEE Software)	JSIS (Journal of Strategic Information Systems)
IEEEET (various IEEE Transactions)	MISQ (MIS Quarterly)
IEEEETKDE (IEEE Trans. on Knowledge and Data Engineering)	MISQE (MISQ Executive)
IEEEETPC (IEEE Trans. on Professional Communication)	MS (Management Science)
IEEEETSE (IEEE Transactions on Software Engineering)	OBHDP (Org. Behavior and Human Decision Process)
IEEEETSMC (IEEE Trans. on Systems, Man, & Cybernetics)	OR (Operations Research)
IJEC (International Journal of Electronic Commerce)	OS (Organization Science)
IJHCI (International Journal of Human Computer Interaction)	SMR (Sloan Management Review)
IJHCS (International Journal of Human Computer Studies)	SP&E (Software Practice and Experience)
IJPR (International Journal of Production Research)	WIRT (Wirtschaftsinformatik)