

Common errors and challenges in publishing in a peer refereed Library and Information Journal

Dennis N. Ocholla¹

Department of Library and Information Science, University of Zululand, X1001,
KwaDlangezwa, South Africa
docholla@pan.uzulu.ac.za

Received 10th November 2006

Accepted 20th January 2007

This article discusses common errors emanating from authors submitting manuscripts or papers for publication in peer refereed Library and Information journals. It is hoped that this paper will provide established, novice and potential scholarly journal authors with valuable information enabling the improvement of their manuscripts before submission for publication. The paper primarily uses the author's experience as editor-in-chief of a peer refereed accredited LIS journal, among other related experiences, as well as 85 peer reviewer reports on submitted manuscripts to South African Journal of Libraries and Information Science, to analyse and discuss common errors made by authors on submitted manuscripts for publication, and the challenges facing these authors.

Keywords: Publishing; Peer Referred Journals; Peer Refereed Library and Information Journals; Library and Information Journals

1 Introduction

The aim of this article is to discuss, by using experiential knowledge, related studies and samples of anonymous reviewer reports, common errors in manuscripts submitted by authors for publication in a peer refereed Library and Information Journal. The paper's structure consists of: an introduction that presents the problem concept and the aim and objectives of the paper; section two examines scholarly journals and peer reviews; section three presents the method and procedure applied whilst producing this paper; section four presents the results/findings emanating from the analysis of peer reviewer reports on sampled manuscripts submitted to *South African Journal of Libraries and Information Science* from 2002 – 2006; section five discusses results; and a final section presents conclusions and recommendations.

Publication of research findings is a fundamental aspect of research dissemination and knowledge sharing processes, and such publications often go through a number of stages before they appear in the public domain for wider circulation and readership. Authors of research papers come from different backgrounds, scholarly traditions and writing dispositions. One of the aspirations of scholarly publishing is publication in top peer refereed scholarly journals, normally of international standing as outlined later. Peer refereeing is common practice amongst scholars, whereby research output undergoes thorough evaluation by peers mostly in the same research domain or discipline. This is in order to determine or vet the quality of output in terms of originality, relevance/significance/contribution to knowledge, methodology, awareness of research in the domain through the review of related studies, and readability, among others. Thus, peer reviews are important quality control mechanisms used by the scholarly community and most scholarly journals to establish the suitability of a manuscript for publication in a journal. Put another way, *'no analysis of research publishing can avoid underlining the critical role of editing and peer review in the maintenance of the global system of knowledge production, accumulation and use'* (Pouris 2006:xiv). Ultimately, as a measure of quality control, peer reviewing (both content and form review) is still strongly favoured by scholarly journals. In South Africa's Policy and Procedures for Measurement of Research Output of Public Higher Education Institutions, (see <http://education.pwv.gov.za/content/document/307.pdf>:6) produced by the Department of Education under recognised research output, journals are required to comply with a list of seven minimum criteria in order to be eligible for inclusion in the list of approved journals. Among them, also relevant to this paper, are that *'The purpose of the journal must be to disseminate research results and the content must support high level learning, teaching and research in the relevant subject area; Articles accepted for publication in the journal must be peer reviewed; the journal must have an editorial board that includes members beyond a single institution and is reflective of expertise in the relevant subject area'*. Considerable similarities exist between the above criteria and the inclusion requirements of journals in the Thompson Scientific – ISI journals indexes (see <http://www.isinet.com>) and the National University Commission of Nigeria (see Mabawonku 2005:21). The exceptional publication demands of accredited peer reviewed journals perhaps help explain why South Africa, which occupies a leading position in research publishing in Africa, is rated amongst the lowest producers of research publications in the World. A recent report by

1. Dennis Ocholla (PhD) is Professor and Head of the Department of Library and Information Science, University of Zululand, South Africa.

Gevers (2006: xiii) based on South Africa's research publication output in 2002, revealed that '*16000 researchers publish about 7000 papers a year, or on average about 0.4 papers per researcher per year*' in the government accredited peer refereed journals earlier alluded to. While there are numerous peer refereed journals in all disciplines (including LIS) in circulation in the world today, in South Africa, for purposes of government subsidy, by 2006 255 (see Mouton, Boshoff and Tijssen 2006:xvi) peer refereed accredited South African journals, journals indexed by Thompson International (ISI) and the International Bibliography of Social Sciences, are recognised. By 2002, 101 journals existed in this category (see Darch and Underwood 2005:8-10) from all three sources in Library and Information Science (i.e. the Government list of 255, ISI and IBSS).

South African Journal of Libraries and Information Science is in its 73rd year of existence. The journal was formerly called *South African Journal of Library and Information Science* (SAJLIS) until 2002 when, with the launch of Volume 68, the name was changed to its present form. A recent bibliometric study (Ocholla 2004:3) revealed that 154 South African authors published 498 articles in 89 LIS journals between 1993 and May 2001 and that of these publications, 65% appeared in local or South African journals lead by *South African Journal of Libraries and Information Science* that published 38% of the articles. Another study was done by this author on journal performance for the Academy of Science of South Africa (ASSAf) in partnership with the Department of Science and Technology (DST) and the Department of Education (DoE), referred to as the 'Strategic Management of South African Journals Project', in which editors of South African research journals were asked to respond to a lengthy (over 100 questions) survey questionnaire about their journals (see: http://blues.sabinet.co.za/images/ejour/assaf/Report/assaf_chapter4.pdf). The survey revealed that firstly, between 2002 (vol. 68) to 2005 (vol.71) SAJLIS published 93 articles of which 64 (68.8%) were single-authored and 29 (31.2%) co-authored. Secondly, SAJLIS published the leading number of articles by South Africans residing in South Africa (which was expected) followed by non-South Africans from South Africa (15-20%). Articles by non-South Africans from other (foreign) countries ranged from 10% for single-authored papers to 38% for co-authored, while those by South Africans residing outside South Africa were non-existent. Furthermore, 65.5 % (19) of the co-authored articles (29) were initially authored by South Africans from South Africa. Thirdly, it was noted that SAJLIS publishes an average of seven research articles in each issue, and half of the authors are between 41-50 years of age. When it came to the distribution of authors by population group, a very critical indicator in South Africa for purposes of equity, most authors were white (54%), followed by black/African (37%), Indian (6%) and Coloured (3%). Having been published for 72 years, the journal is unique in that it is the oldest existing LIS research journal in Africa. Furthermore, it benefits from goodwill, attracts good authors and, more importantly, is accredited by the government for subsidy.

2 Scholarly journals and peer review – background and rationale

What are scholarly and peer refereed journals?

2.1 Scholarly journals

Research is only complete when it is published and widely disseminated or shared. There exist numerous publications in which scholars publish their research papers, common ones of which include books (largely monographs), articles in academic or professional journals, chapters in books, reviews and peer refereed conference papers, research reports (e.g theses and dissertations), patents and creative works. However, journal articles in peer refereed scholarly or academic journals still dominate (and are considered prestigious) when measuring research output. Several widely cited reasons explain why scholars publish their research output. Calvert and Gorman (2002:3) observe that authors write '*to disseminate new research findings or ideas. The publication of a paper establishes precedents in the formation of new knowledge, and it puts new information in the professional domain where it can be scrutinized, criticized and either accepted or rejected. It may then contribute to further discourse. The author also makes personal gains by adding to a list of publications that can be used for tenure and promotion, for gaining professional acceptance that may lead to speaking engagement, consultancy work, perhaps even awards*'. Put another way, Murray in Stilwell (2006:7) summarises the reasons as follows: career progression, or moving up to the next rung on the ladder, gaining recognition for work done, preventing others from taking credit for one's work or using one's materials, helping one's students gain recognition for their work, learning higher standards of writing, contributing to knowledge, building one's institution's status and developing a profile. Other reasons worth mentioning could also potentially be: justification for funding by an individual, department or institution; for tenure or permanent appointment; gratification, or boosting one's ego through recognition; community practice and incentive. As is generally known, in South Africa, research publications in pre-listed journals are generously rewarded through government subsidies amounting to approximately (as figures rise regularly) US\$ 11820 or R.85100 paid out to the institution of the author's affiliation for each qualifying article published in the pre-listed journal. In turn, this determines the formula for resource allocation to the contributors to further their research (see Department of Education Policy and Procedures for Measurement of Research Output of Public Higher Education Institutions, 2003).

Since academic or scholarly journals are the main conveyors of knowledge or research output, they often undergo rigorous evaluation leading to their ranking both or either nationally and internationally. One of the quantitative measures that has received strong international support, but also criticism, for categorizing, comparing, evaluating and ranking journals was developed by Eugene Garfield in Stilwell (2006:4) of ISI, which is now Thompson Scientific. It is based on the Journal Impact Factor (JIF), which relies on evaluating the impact of citation frequencies of articles in a journal (CIF). The Citation Impact Factor (CIF), proposed by Eugene Garfield in 1969 (Garfield, 1996:411), is defined as the average number of citations in a given year of articles published in a journal in the preceding two years. The ratio is obtained by dividing citations received in one year by papers published in the two previous years (see also Onyancha and Ocholla: 2006:4). Garfield in Stilwell (2006:3) reasons that such evaluation reduces bias by ensuring that *'large journals over small ones, or frequently issued journals over less frequently issued ones, and older journals over newer ones'* are not favoured by evaluations and rankings. Critics of quantitative measures such as Gorman (2000), Calvert and Gorman (2002), while recognizing traditional ways of measuring journal 'qualities' as opposed to quantitative indicators such as *'circulation, total number of pages per volume, number of times cited in the literature, coverage by indexing services, etc.'* (Calvert and Gorman 2002:1) argue in favour of using largely qualitative measures. They reason that *'The fact that paper x is cited y times is not an indicator of quality, but rather that it is cited – it is available, it is in a journal held by many libraries, the author(or publisher or editor) is particularly good at self-promotion'* (Calvert and Gorman 2002:3). Where a journal is indexed (e.g. ISI indexes), the level of circulation and citation frequency also play a role. Journal rankings seem to receive strong support as projected by several authors cited by Stilwell (2006:3-5), such as Harnad, Carr, Brody and Oppenheim. Peer review is listed as one of the qualifying factors.

2.2 Peer review

Peer review has a history that extends over more than three hundred years of learned inquiry, acting as a traditional instrument of quality control involving screening intellectual output for quality, reliability and credibility. Peers are credible scholars or qualified adjudicators in a discipline or subject domain that scholars or journals rely upon for views or comments on the content suitability of a manuscript for publication in a scholarly or academic journal. The process of this 'review' service, in the form of comments to the journal editor and/or author's attention, is popularly called 'peer review'. It is built on the premise that research output (articles, monographs, research reports, patents, etc) would earn more credibility, be more accepted, contribute more towards a society or discipline, command more respect and be more reliable if peers (experts in the discipline) vet its quality by scrutinizing, screening and evaluating its content and format. The latter is checked for theoretical soundness, originality, significance and contribution to knowledge, upon which it is recommended for publication or dissemination to the scholarly community through mainstream academic or scholarly journals. Peer review, therefore, should generally improve the quality of research output, improve the standard of scholarly communication, protect the public/scholarly community from unreliable or invalid information or knowledge and safeguard the reputation and recognition of individuals, affiliate institutions and academic journals. Although peer review is widely used for determining the quality of publication in journals, it is also liable to weaknesses. Most of these weaknesses are intellectual – insufficient knowledge in the subject domain, moral or psychological bias, sociological (distance from context and political) arrogance and ignorance, among others. However, it is recognized that quality control is fallible; peer review is therefore not exceptional. Strong critics of peer review, such as Tipler (2003) when referring to and analyzing cases involving prominent discoveries in science such as 'Copernicus's heliocentric system, Galileo's mechanics, Isaac Newton's grand synthesis and Charles Darwin's evolution theory' as well as highly respected Nobel prize winning papers (such as Albert Einstein's), argue that *'today, the peer refereeing process works primarily to enforce orthodoxy'* and offer *'evidence that 'peer' review is not peer review: the referee is quite often not as intellectually able as the author whose work he judges. We have pygmies standing in judgment on giants'* (Tipler 2003:2). However, Tipler does compromise by proposing that *'leading journals in all branches of science establish a 'two-tier' system. The first tier is the usual referee system. The new tier will consist of publishing a paper in the journal automatically if the paper is submitted with [a] letter from several leading experts in the field, 'this paper should be published'* (Tipler 2003:10). That, in my opinion, still leads us back to peer review. Equally intriguing, but fairly constructive and sometimes subversive debate on this issue, is offered by Steven Harnad (see: <http://www.princeton.edu/~harnad/intpub.html>, <http://cogsci.soton.ac.uk/~harnad/intpub.html>). In one of his many seminal articles on peer review (Harnad, 1998: paragraph one), he argues that journals should not be free from the *'process of peer review, whose "invisible hand" is what maintains its quality'*.

2.2.1 Peer review process

Peer reviewers are expected to be competent and credible scholars in order to be sufficiently eligible to participate in a review process. Gorman (2000:101) for example, identifies three aspects of good reviewers, that of competent researcher, objective assessor and comparative evaluator. Although there are variations on peer review processes from

journal to journal, there exist strong similarities concerning manuscript flow from author to editor to reviewer. For instance, SAJLIS processes involve 9 steps as outlined by Ocholla (2006:18). The refereeing procedure is as follows:

- Authors normally inform the Editor-in-Chief of their intention to publish in a journal and receive consent to post or e-mail the manuscripts to the Editor.
- Manuscripts are received by e-mail and/or post according to the journal's publication guidelines.
- Authors receive acknowledgment from the Editor.
- The Editor-in-Chief verifies manuscripts for suitability for publication in the journal.
- Suitable manuscripts are e-mailed to Journal reviewers (normally consisting of LIS scholars of standing, members of the Editorial Advisory Board, the Journal Management Team and others identified by their expertise and publication profile.). Through [double] blind reviews the referees evaluate the manuscripts, for a duration not exceeding one month, before sending them back to the Editor-in-Chief. At least two reviewers must evaluate each article. The Reviewers' Evaluation Form is enclosed with each manuscript for the reviewer's guidance.
- Both accepted and rejected manuscripts are e-mailed to the author(s), with a full but relevant report by the reviewers (authors do not have to know who reviewed their manuscripts)
- Authors make corrections and e-mail their final document to the Editor if manuscript is accepted
- The Editor, after verification, sends the manuscript to the Publisher.
- Publication is normally expected within the specified dates [30th March, June and December].

It is SAJLIS policy to encourage and support LIS authors. However, in order to improve the quality of publications, manuscripts that are unanimously recommended by at least two reviewers for substantive revision or rejection may not be published. Although guidelines are important for guiding reviewers, most journals do not provide them, as is the case with LIS journals in Nigeria (Mabawonku, 2005).

A large part of this process is outlined graphically in Figure One.

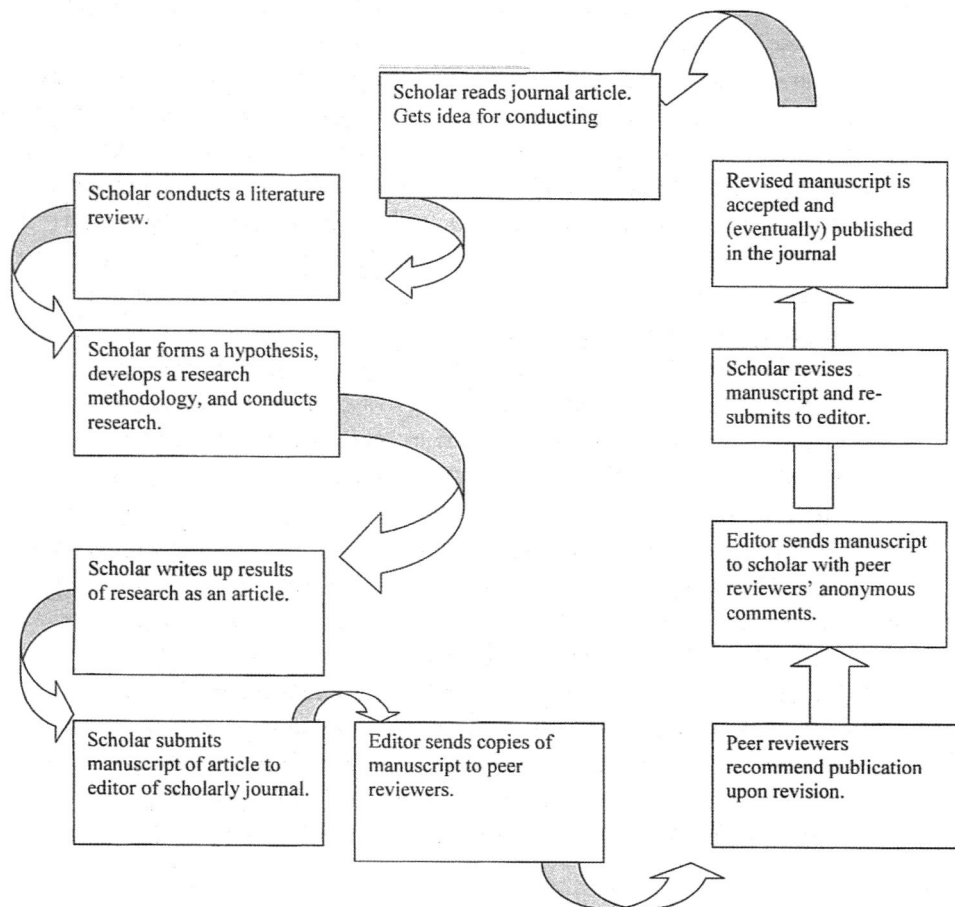


Figure 1 The Scholarly Publication Process.

Source: http://www.lmunet.edu/library/INFL/materials/INFL100_InfoEval_Part2.ppt

2.2.2 Nature and type of review

The nature, type and level of review is normally outlined in instructions to reviewers which are sent to the reviewers together or separately from the manuscript. Thus, the tasks of editors and reviewers are clearly spelt out in order to guide the review process and avoid inconsistency or avoidable bias. Should the criteria of evaluating submitted manuscripts be uniform? Reviewers are normally required to evaluate and rate the manuscripts and either recommend them for publication: – without [any] corrections, with minor corrections, with substantial corrections that may demand a complete revision of the manuscript and a follow-up review – or reject them. In most instances, reviews are required to determine or judge the quality of the manuscript in terms of theoretical and methodological validity, originality, significance and contribution, and readability.

Tipler (2003:2) outlines three criteria informing judgement, stating them as the validity of the claims made in the paper, originality of the work or whether similar work has already been done, and 'whether the work, even if correct and original, is sufficiently 'important' to be worth publishing in the journal'. Gorman citing Gorman (2000:102-103), for example, identifies six criteria for assessing submissions to Asian LIS Journals as: the advancement of knowledge, new information or data; theoretical validity (use of appropriate theory or multiple theories); level of scholarship (quality of analysis and author's ability to generate new knowledge); acceptable research design and appropriate methodology and analysis that assists referees in establishing levels of 'contribution in terms of knowledge or information conveyed'; originality of the contribution; and the soundness of the methodology, findings and structure.

2.3 Common errors in Scholarly (LIS) Journals

Errors do not necessarily occur only during the preparatory phase of publication but at early stages of research design. Mistakes that occur during the preparation of LIS theses and dissertations by students, as discussed by Kaniki (2000), are frequently carried on to the preparation and submission of manuscripts for publication in an LIS peer refereed journal. Hinchliffe (2003:3) advises that '*thinking about your final manuscript begins when you start thinking about your project*'. In her view, this includes: searching or reviewing literature and placing the project in context; choosing a topic and determining the relevancy of the topic; manuscript and component organization; and technical preparation (proof reading, typographical errors, and adherence to the requirements provided by publishers in their Guide to Authors, etc). Smarby, Crews and Downing (1999), citing Dies, Henson and McGowen, identify the following as areas under which technical writing errors are made by aspiring authors: selecting topics to write about; describing research methods; following the American Psychological Association (APA) format; citing related research; using the appropriate writing style; and responding productively to feedback on manuscripts from editors. Reporting on studies that focus on determining the degree of association between selected variables on the acceptance or rejection of manuscripts based on a sample of 180 manuscripts submitted during 1997 to 1998 in 'Counselor Education and Supervisor' (CES), the three authors show that over 50% with scores exceeding a 70% rejection rate emanated from: weak critiques of relevant research studies; disorganized literature reviews; poor use and description of statistical analyses; poor presentation and choice of research procedures, descriptions of instruments or choice of research procedures; illogical conclusions drawn from results reported in their manuscripts; impracticality in the description of implications in their manuscripts; poor description and integration of relevant directions for future research; and improper use of the APA style. Errors also occur when individuals choose the wrong journal for a manuscript. Searing (2003:4) advises that it is important to find out whether or not the journal is peer-reviewed and whether the journal is prestigious (i.e. 'very' choosy), and assess the journal's audience. Foster (2003:5) states that a good manuscript is created when the author is surrounded by current and concise references, the manuscript is repeatedly revised, the paper is well edited and proof read, instructions to authors are familiarized thus establishing finer submission requirements, the manuscript is read by others for comments, and the paper is accurately submitted. It is important to review recent issues of the journal in order to be in line with their latest requirements.

An interesting study conducted by Fischer (2004) for the *Journal of Management Issues* (JMI), based on a reviewers' report data summary covering 1989 - 1991 (N=68) and 1994-2003 (N=217), noted 3 of the most frequently cited errors by referees as: significance of contribution (e.g. findings are of little value/interest), and methodological and conceptual rigor. Other issues that contribute toward errors, in descending order, based on 'completely inadequate' and 'major problems' ratings combined in this study were: discussion of results, length/contribution ratio, treatment of relevant literature, contribution (with revision), clarity of objectives, readability, and logical organization. An editor, according to Fischer, functions as a 'gatekeeper' that ascertains the suitability of a paper for publication in a journal, or separates what he calls 'wheat from chaff', using the following criteria: the paper does not fit the journal's editorial mission, the submission is poorly written, the use of out-of-date literature, inadequate levels of scholarship (no academic rigor-opinion, no validation of viewpoints) and unwieldy writing (e.g. overly complex, poorly organized, etc).

3 Method and procedure

This paper uses the author's experience as editor-in-chief of a peer refereed accredited LIS journal, among other experience (e.g author, reviewer etc), as well as 85 randomly selected peer reviewers' reports on submitted manuscripts to *South African Journal of Libraries and Information Science*, to analyze and discuss the common errors made by authors on submitted manuscripts for publication and the challenges facing these authors. Three sets of data capturing sheets were created in Excel. The first sheet was populated with quantitative scores generated from the Reviewer's Assessment Form (see Appendix 1) which captured scores on originality, significance and contribution, organization, methodology (where applicable), literature review and language/readability by allocating Likert Scale measures of 5 (excellent), 4 (good), 3 (marginal/fair), 2 (poor), and 1 (very poor/rejected). Scores from the 85 documents were then tabulated and transcribed into charts as reflected in Figures 2-7. The second sheet was created through a content analysis of the reviewers' textual/qualitative remarks. Key concepts were derived from the remarks and itemized or listed for frequency analysis. The list was sorted alphabetically and the frequencies of concepts recounted and verified in order to determine the most common errors identified by the authors as listed in Table 1. The paper is informed by existing studies and literature on scholarly publications/journals and peer reviews, as well as the author's experiential knowledge in scholarly publishing.

4 Results

This section focuses on information obtained through an analysis of the Reviews Assessment form normally posted to each reviewer with the manuscript for assessment. The first section (see Figures 2-8) provides cumulative scores made by 85 reviews based on six indicators. The second section (see Table 1) reports on qualitative evaluation reports obtained through the content analysis of the reviewers' reports.

4.1 Originality

Originality refers to the quantity and quality (novelty) of contribution made by the author to the content of the document or manuscript. A five point Likert scale, represented in Figure 2, was used to measure this variable. Notably, a large number (45% of 85 and 34% of 85) of reviewers scored Good and Fair respectively with accord to originality. The Very Poor and Poor scores combined made up less than 20 %, suggesting originality was generally considered fair to good.

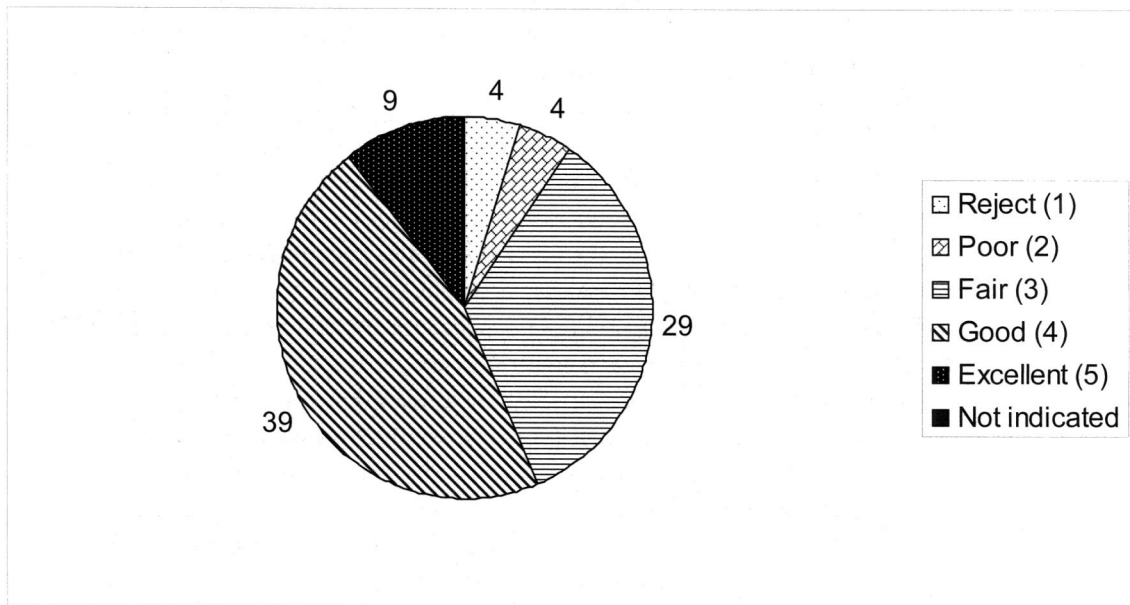


Figure 2 Originality

4.2 Significance and contribution

Significance and contribution are not necessarily the same concept. A manuscript may be significant in terms of how relevant or important the research topic, theme or domain is, but the content may contribute little towards LIS research, suggesting weak or inappropriate research and inadequate presentation rigor. Thus, contribution refers to the impact a manuscript possesses in LIS research. Questions relating to the latter include: are there fresh contributions to LIS knowledge in terms of critical evaluation of related studies or in the formativeness of the review; is the methodology robust and replicable; are the results valid and relevant; is the discussion analytic and evaluative; and are the conclusions and recommendations valid? In this category, the reviewers scored both Poor and Fair, with a few scores in favor of Good

as reflected in Figure 3. In essence, the reviewers' rating of contribution was low. However, regarding significance, while Excellent, Poor and Very Poor received insignificant scores, Fair and Good received over 70% of the scores, with most reviewers rating the significance of the manuscript Good.

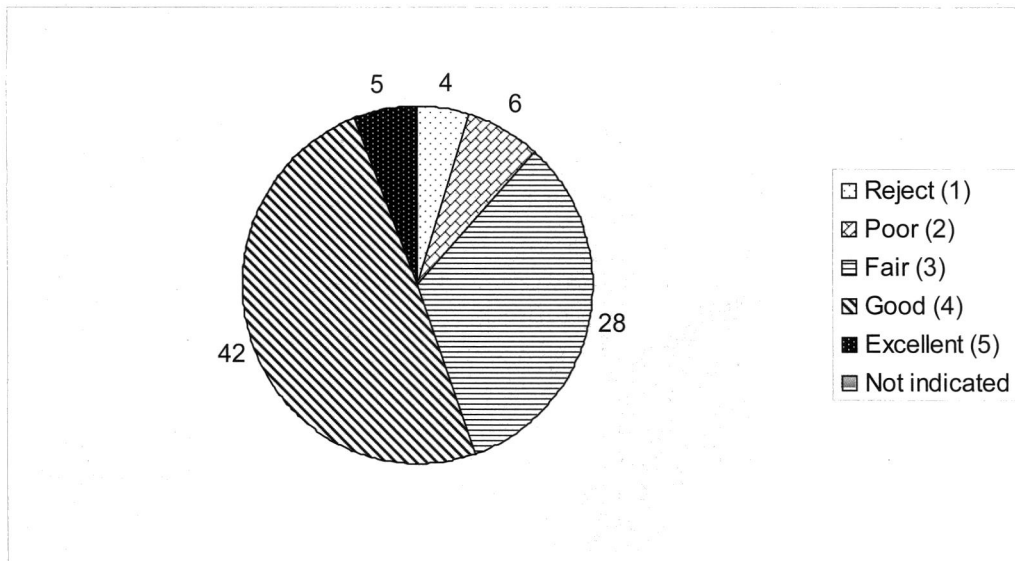


Figure 3 Significance and contribution

4.3. Organization

The organization of a manuscript for publication in a scholarly journal differs slightly between qualitative and quantitative studies, although both largely favour five components. The first consists of the introduction, in which the concept and context are introduced, and the problem of the investigation, including aims and objectives of the paper, are normally highlighted. Other sections are made up of reviews of related studies, although sometimes this may appear in the introduction section, methodology or method and procedure, results or findings, discussions, conclusions and recommendations. These conventions are common in the outlined structure of quantitative research reports, although they also seem to prevail in most qualitative research reports. Riggs (2003:2) observes that a research journal article should normally include: 1. introduction, 2. statement of the problem, 3. justification of the study, 4. review of the literature, 5. methodology (research techniques), 6. collection, analysis, and interpretation of data, and 7. conclusion. Organization may also entail formatting, coherence and writing style. Organization (Figure 4) scored Fair (29%) to Good (36%), meaning errors were moderate.

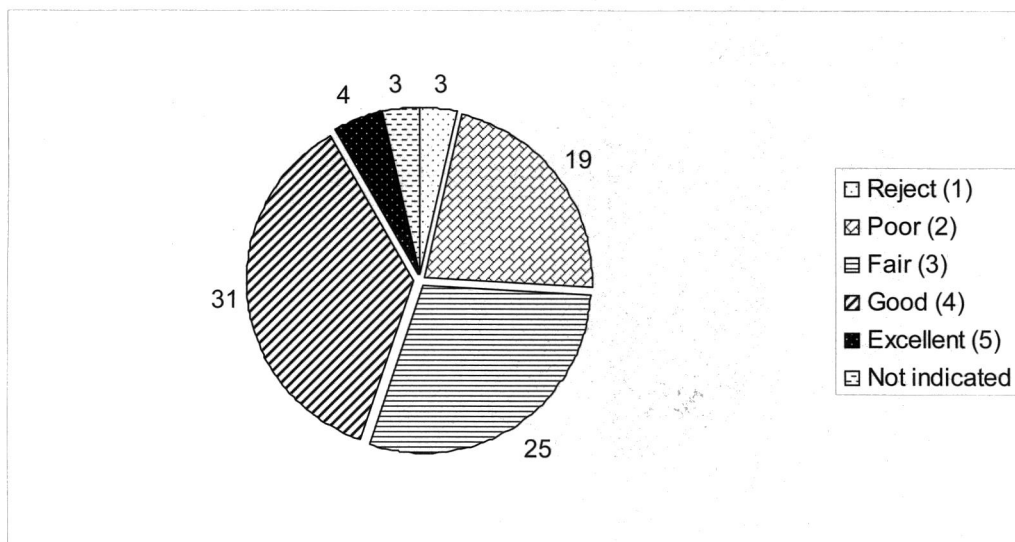


Figure 4 Organization

4.4 Methodology

The term methodology may be interpreted in different ways. Methodology normally represents the method and procedure employed, or how to conduct a study. Depending on the nature of the study, researchers employ either qualitative, quantitative or both approaches during research design. Increasingly, both qualitative and quantitative research designs and methods are applied in research. In this instance (Figure 5), reviewers gave almost similar scores to Poor, Fair and Good. The scores in were largely average.

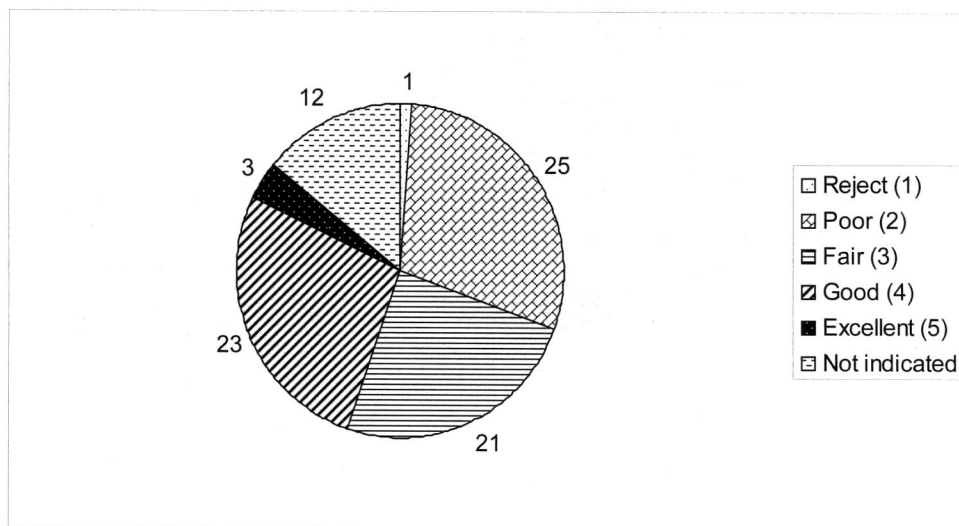


Figure 5 Methodology

4.5 Readability

One challenge of disseminating research lies in writing clearly and correctly, thus enabling readers to access and understand an article's content. Readability, language use and accessibility are used interchangeably in order to define how well a manuscript has been written. Not all scholarly authors have mastered this quality, as the command of a dominant language of communication varies amongst people and is most particularly problematic to those using a non- vernacular language for scholarly communication. As reflected in Figure 6, readability scores are split between negative and positive, suggesting they were generally fair. It was observed by this author that most manuscripts were written by either established authors or established and novice authors in co-authorship. Authors also try in most cases to get their articles proof read before submitting them for publishing in order to meet the requirements normally demanded by journal editors. This author concurs with Fisher (2004) and Herson (2003:6) that journal editors normally edit manuscripts before sending them back to reviewers as part of their 'gate keeping' role. Authors also seek help from editors in order to improve the readability of their papers before they are submitted to reviewers.

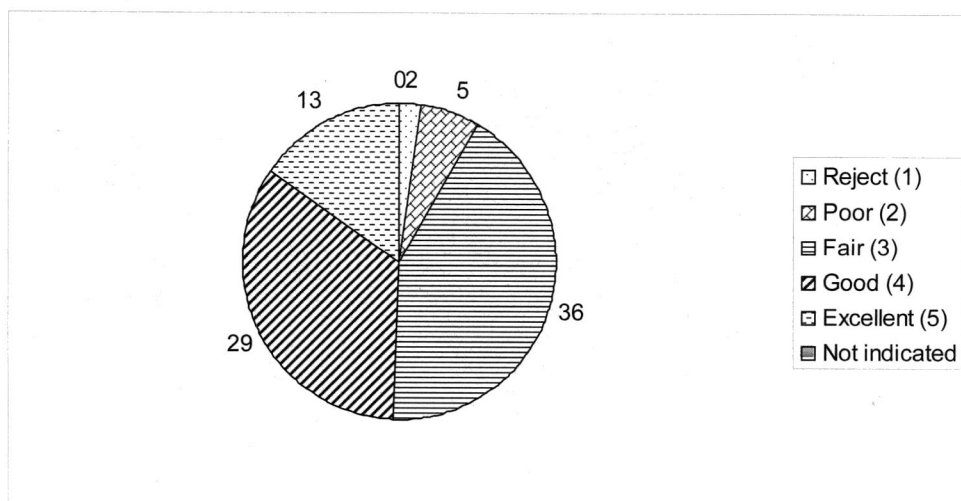


Figure 6 Readability

4.6 Literature review

Literature review is essential, though not all manuscripts may strongly reflect this aspect. There is, however, a unanimous concurrence by authors cited in this paper (e.g. Gorman 2002, Kaniki 2002, Maddux and Liu 2005, etc) that literature review is essential for any research as it informs the manuscript, and affirms that the author is familiar with the research field and able to interrogate and evaluate it correctly and competently in support of his/her work. The level of literature review varies according to the nature of the manuscript, which could be a research paper, case study, conceptual paper, technical paper, literature review, etc., an aspect that perhaps explains why it (see Figure 7) was not necessarily well represented.

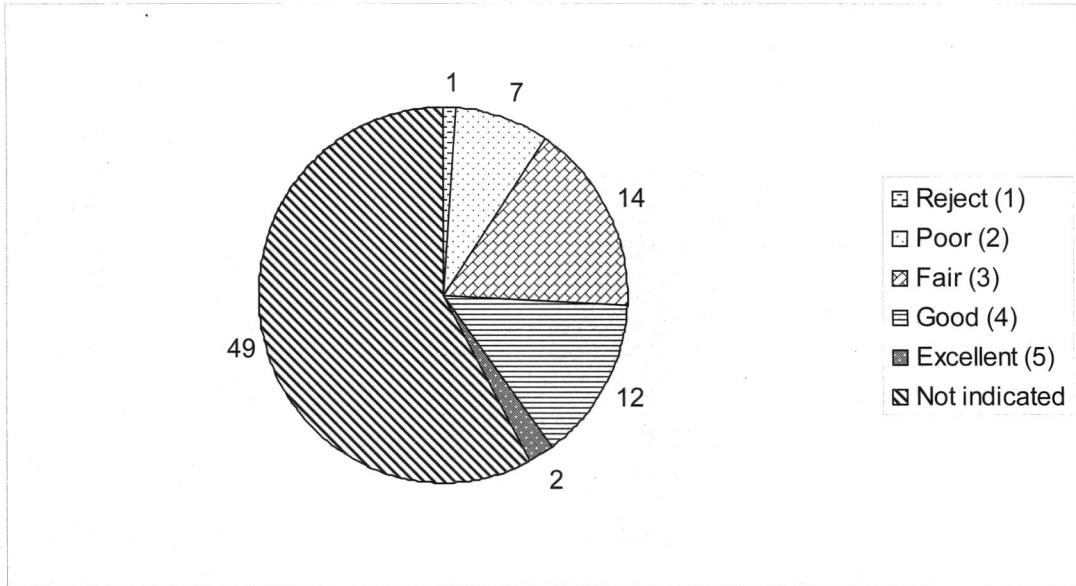


Figure 7 Literature Review

Fig.8 shows that common errors in descending order are literature review, methodology, organization, readability, originality and contribution/significance.

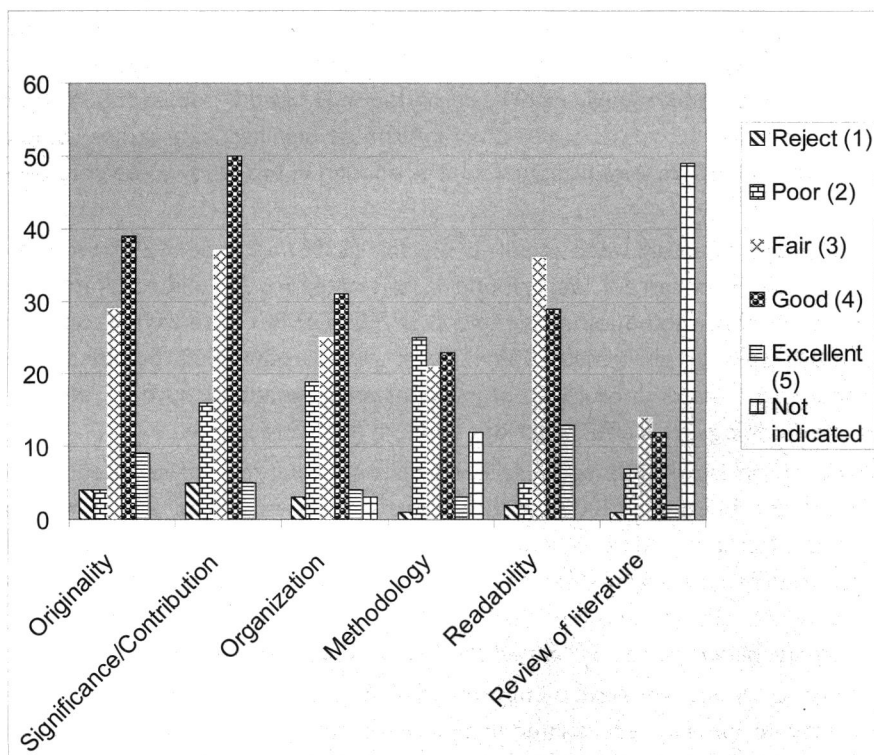


Figure 8 Summary of Score Categories

Table 1 A Content analysis and representation of the reviewers views on authors' errors (N=85)

Type of errors	N.	%
Research methodology/method – not robust, data collection instruments and analysis inadequately presented and described, research method not articulated, no empirical study	62	72.9
Presentation/organization – poor or unnecessary graphics presentations, poor organization, no logical flow, lack of clarity, inappropriate format, inadequate abstract, unclear scope of research, no or inappropriate introduction, poorly structured, length of paper either too long or too short	61	71.8
Readability – editorial/proof reading, typographical errors/editorial errors, meaning not clear, lack of clarity, mistakes in names, language errors	40	47
Literature review – weak, no definitions for conceptualization, lack of context-conceptual and literature review,	37	43.6
Referencing/citations – inappropriate referencing style, lack of South African references, weak, bibliography, poor electronic referencing	33	38.8
Conclusions and recommendations – missing link between findings and recommendations, no agenda for further research,	33	38.8
Problem statement – unclear, no or unclear aim and objectives,	28	32.9
Results – not clear, poorly organized, unreliable,	28	32.9
Content – weak, no link between title and content,	20	23.5
Discussions – lack of critical evaluation	15	17.6
Unscientific – lack of scientific approach	14	16.4
Contribution – no impact, lack of contribution or newness	10	11.8

5 Discussions

The first set of scores represented in Figures 2-8, which focus on originality, significance and contribution, organization, methodology readability and literature review show moderate errors in the six categories. For example, originality scored between fair and good. Very few (11%) manuscripts scored excellent (meaning error free) or very poor/rejected (5%) for originality. Secondly, 51% of the manuscripts were weak (sharing fair, poor and very poor) in terms of contribution. Surprisingly, contribution scores were considerably less (10; 11.8%) in the qualitative analysis of errors (Table 1) based on reviewers' remarks. Scores emanating from quantitative analysis do, however, concur with studies conducted by Smaby, Crews and Downing (1999), and Fischer (2004) who identified contribution as one of the top errors made by scholarly authors. Organization scored 65%, when fair (29%) and good (36%) were combined, which reflects positive judgment by reviewers. However, in the detailed qualitative reports (Table 1), organization or presentation scored second highest (61; 71.8%) with regard to common errors experienced by authors. In related studies reported by Smaby, Crews and Downing (1999), organization is rated 2nd from top of eight errors, while a study by Fischer (2004) rated organization 10th (last) of ten errors. Although significant variations could exist on the weight of organization as an error made by authors, organization features enough in this study to be considered an error worthy of attention.

Methodology is almost proportionately rated good (27%), fair (25%) and poor (29%) in the quantitative scores of reviewers (Fig.4), meaning that more errors were found in this category. This is reiterated in the scores based on qualitative reports in Table 1 where methodology is rated first (62; 72.9%) in terms of common errors. Interestingly, most studies reviewed in this paper (e.g. Gorman 2000, Calvert and Gorman 2002, Smaby, Crews and Downing 1999, Fischer 2004) rate methodology as a common cause of frequent errors made by authors, including authors of LIS peer refereed journals. Thus, methodology is an area of serious concern for LIS research.

Readability or language scored fair [43%] (see Fig. 5 and 8), suggesting that it was adequate. However, we wish to concur with Fischer (2004) and Hernon's (2003) observation that editors edit/screen submitted manuscripts before sending them to reviewers, a factor that directly influences negative scores. Experience has shown that poorly written manuscripts normally get returned to authors for editing or proof reading before being subjected to a peer review process. Alternatively, such manuscripts are rejected. The reviewers' quantitative reports (Figure 5) concur with qualitative reports where readability is placed 3rd with 40 (47%) as indicated in Table 1.

As discussed before, a good literature review is important in (LIS) research. However, depending on the nature of the study, a literature review may not be fully represented in a journal article. For example, while a research report may give only an overview of the literature review, a literature review manuscript would give a detailed review of related studies. Therefore, evaluating a manuscript in this category should be done selectively and not by completely ignoring whether or

not the author reflects good insight in the area/field of study. We have noted in this study that literature review scores were largely not indicated, as shown in Figure 6, emerging as a visible error (37/43.6%) in reports made by reviewers (see Table 1).

In addition to the above six indicators of possible manuscript errors, we also noted that referencing (33; 38.8%), conclusions and recommendations (33; 38.8%), among others listed in Table 1, are errors that require attention. For instance, although journals provide guidelines on referencing style, authors grapple with referencing, particularly with electronic referencing. Also common, although not easily detected, are mismatched references between the body of the manuscript and those presented in the reference list/bibliography at the back.

6 Conclusions

Publishing in scholarly peer refereed (LIS) journals is both challenging and highly beneficial in improving the quality of individual author's work through a peer review process. Whether the challenges have something to do with minimal publication from graduate research in South Africa is worth further investigation (Ocholla 2000). There are also useful guidelines, some of which have been cited in this paper (e.g Hinchliffe and Dorner 2003; Marduck and Liu 2005) and research reports (e.g Gorman 2000, 2002; Kaniki 2000, Stilwell 2006; Aina, Alemna and Mabawonku 2005) that specifically address publishing issues in LIS research and journals. Common errors identified in this study, as indicated in Table 1, although unique in some cases, tend to concur widely with those reported in related studies focusing on both LIS and non-LIS journals. For instance, the five top common errors identified in the study (see Table 1) such as research methodology, presentation/organization, readability/language, literature review and referencing tend to feature frequently among the top listed errors in the related studies. We have noted that originality and contribution is rated among the top errors in related studies but did not feature strongly in the qualitative based analysis (Table 1) as major errors. Cumulative scores emanating from the analysis of Figures 2-7 show that on average there were few manuscripts without errors (excellent – 7.3%) and few (2.9% for very poor and 26.7% for poor) that had many errors. Most manuscripts scored fair (30%) and good (33.5%) in terms of errors relating to originality, significance, organization, methodology, readability and literature review as illustrated in Figures 2-7.

It is highly recommended that authors for scholarly journals, in this case LIS authors, take note of the following advice as outlined by Fischer (2004), based on referees' and editors' comments from his study, and with which this author strongly agrees: One must pick one's level and build up (begin with less competitive publication sources or outlets and build from them, diversify your portfolio of submissions (*decide whether you want to go a mile wide and an inch deep or an inch deep and a mile wide*), follow your comparative advantage (explore and engage co-authorship for sharing expertise and reducing your workload), participate in apprenticeships (work with experienced authors), network to enable partnership and knowledge sharing, learn from the best – access and read the 'best papers' in journals or as declared at conferences, get critical feedback – benefit from the expertise of colleagues who offer critical feedback, some of which can be offered at conferences or other paper presentation forums, learn critical evaluation skills – look at your own work critically and market your submission to the editor – a good covering letter clarifying items in the paper is worthwhile. Additionally, organizing and participating in authors' workshops, seminars and conferences is essential. Above all, actively participating in scholarly communication at various levels regularly, learning from one's mistakes and not being afraid of peer reviews produces the best results. No author, not even the most experienced, produces an error free manuscript.

7 References

- Aina, L.O., Alemna, A.A. and Mabawonku, I 2005. Improving the Quality of Library and Information Science Journals in West Africa: A Stakeholders Conference. Proceedings of the Conference Held at the Conference Centre, University of Ibadan, Nigeria.
- Calvert, Phillip J. and Gorman, G.E. 2002. Testing Article Quality in LIS Journals: The Search Continues. 68th IFLA Council and General Conference, August 18-24, Code Number 169-118-E, Division Number VII, Library and Information Science Journals.
- Darch, C. and Underwood, P.G. 2005. Are pre-compiled citations indexes of peer-reviewed journals an adequate control for research quality. A case study of library and information science. *South African Journal of Libraries and Information Science*, Vol.71 (1), 1-10.
- Department of Education 2003, Policy and Procedures for Measurement of Research Output of Public Higher Education Institutions. [Online]. <http://education.pwv.gov.za/content/document/307.pdf>. Accessed 18 September 2006.
- Fischer, Charles C. 2004. Managing Your Research Writing for Success: Passing The 'Gatekeepers'. [Online] <http://www.wetga.edu/~bquest/2004/gatekeepers.htm>. Accessed 25 September 2006.
- Foster, Connie 2003. Lessons Learning as Author and Editor. In: L.J. Hinchliffe and Dorner J. (Eds) *How to Get Published in LIS Journals: A Practical Guide*, Library Connect: 5. [see: libraryconnect@elsevier.com].
- Garfield, E. 1996. Citation indexes for retrieval and research evaluation. Paper presented at Consensus Conference on the Theory and Practice of Research Assessment, Capri., October 7th, 1996. [Online]. <http://garfield.library.upenn.edu> Accessed 6 February 2003.

- Gevers, W. 2006. Introduction and background. In: Report on a Strategic Approach to Research Publishing in South Africa. Pretoria, ASSAf. P.xiii-xv; 1-28. [Online]. http://www.assaf.org.za/strat_report.html Accessed 6 October 2006.
- Gorman, G.E. 2000. Authors and Editors of Library Science Journals: Reflections from an Asia/Pacific Context. *Libri*, vol.50, 98-103
- Harnad, Stevan 1998. The invisible hand of peer review. [Online] <http://www.nature.com/nature/wematters/invisible/invisible.html> . Accessed 22 September 2006
- Hernon, Peter 2003. Peer Review. In: L.J. Hinchliffe and Dorner J. (Eds) How to Get Published in LIS Journals: A Practical Guide, Library Connect: 4. [see: libraryconnect@elsevier.com]:6.
- Hinchliffe L.H. and Dorner J. (Eds). 2003. How to Get Published in LIS Journals: A Practical Guide, Library Connect [see: libraryconnect@elsevier.com].
- Hinchliffe, Lisa H. 2003. Seeking to publish? Prepare for Success! In: L.J. Hinchliffe and Dorner J. (Eds) How to Get Published in LIS Journals: A Practical Guide, Library Connect: 3. [see: libraryconnect@elsevier.com].
- Kaniki, A.M. 2000. Prevalent mistakes in the preparation of Library and Information Science (LIS) theses among master's degree candidates in Eastern and Southern Africa. In: Wormell, Irene. (ed), Proceeding of the 1st biennial ProLISSA Conference, Pretoria, 26 - 27 October 2000. Pretoria: CID University of Pretoria, pp. 39 - 54.
- Mabawonku, Iyabo 2005. Quality Assurance of Library and Information Science Journals Published in Nigeria: A Critical Overview. In: L.O. Aina, A.A. Alemna and I.Mabawonku (Eds). Improving the Quality of Library and Information Science Journals in West Africa: A Stakeholders Conference. Proceedings of the Conference Held at the Conference Centre, University of Ibadan, Nigeria, 7-8th December, 2005, 19-34.
- Maddux, Cleborne D., Liu Leping 2005. Publishing Research Findings: Some Suggestions for Junior Faculty. *International Journal of Technology in Teaching and Learning*, 1(2), 55-62.
- Mouton, J.; Boshoff, N. and Tijssen R. 2006. A comprehensive analysis of South African research Journals. In: Report on a Strategic Approach to Research Publishing in South Africa. Pretoria, ASSAf. P.xvi-xix; 29-59.
- Ocholla, D.N. 2005. Management of LIS Journals: Some Africa Perspectives. In: L.O. Aina, A.A. Alemna and I.Mabawonku (Eds). Improving the Quality of Library and Information Science Journals in West Africa: A Stakeholders Conference. Proceedings of the Conference Held at the Conference Centre, University of Ibadan, Nigeria, 7-8th December, 2005, 1-18.
- Ocholla, D.N. 2000. Research capacity in library and information science in South Africa – an overview. 66th IFLA Council and General Conference Jerusalem, Israel, 13-18 August [Online]. <http://www.ifla.org.sg/IV/ifla66/papers/054-127e.htm>. Accessed 6 October 2006.
- Ocholla D.N. 2004. An informetric study on the aspects of the research output in library and information science in South Africa: 1993-2001. A paper presented at the 4th LIASA Conference, RETIG, 22nd-26th September 3, Rustenburg, South Africa.
- Onyancha, O. Bosire and Ocholla, Dennis.N. 2006. African Institutions of Higher Learning: Ripe for Cybermetric Studies? Performance of South African and Kenyan Universities on the World Wide Web. 8th WWW Conference, Bloemfontain, 5th-8th September.
- Pouris, A. 2006. A bibliometric assessment of South African research publications included in the internationally indexed database of Thompson ISI. In: Report on a Strategic Approach to Research Publishing in South Africa. Pretoria, ASSAf. P.xv-xvi; 9-28.
- Riggs, Donald. E. 2003. Writing for the LIS profession: Introductory Comments and Questions. In: L.J. Hinchliffe and Dorner J. (Eds) How to Get Published in LIS Journals: A Practical Guide, Library Connect: 2. [see: libraryconnect@elsevier.com].
- Searing, Susan E. 2003. Questions to Ask When Selecting a Journal. In: L.J. Hinchliffe and Dorner J. (Eds) How to Get Published in LIS Journals: A Practical Guide, Library Connect: 4. [see: libraryconnect@elsevier.com].
- Smaby, M., Crews, J., Downing, T. 1999. Publishing in Scholarly Journals: Part II. Is it an Attitude or Technique? It's A Technique. *Counselor Education & Supervision (CE&S)* Vol.38, No.4:227-235. [Online] <http://unr.edu/homepage/smaby/part2.html> Accessed 26 September 2006.
- Stilwell, Christine 2006. Beyond reason and vanity: some issues in academic journal publication in library and information studies, *South African Journal of Libraries and Information Science*, 72(1):1-11.
- Tipler, Frank J. 2003. Refereed Journals: Do They Insure Quality or Enforce Orthodoxy? *ISCID Archive* – June 30:1-12.

Appendix I: Reviewer's Assessment Form**Reviewer Name:****Date Sent:****Date Due:****Manuscript Title:**

Dear X

**Request to review an article/a paper for consideration/publication in
South African Journal of Libraries and Information Science**

Please assist us to establish the suitability of the enclosed manuscript for publication in the South African Journal of Libraries and Information Science.

The manuscript should be reviewed in terms of the following seven criteria.

Originality:

Significance:

Contribution:

Organization:

Methodology (where applicable):

Literature review:

Language/readability:

The following scales need to be used:

5: Excellent

4: Good

3: marginal/fair

2: Poor

1: Rejected

Your final verdict should indicate whether (please indicate with an X mark):

1. The paper/manuscript be accepted and that no errors need to be corrected ()
2. The paper/manuscript be accepted, but that the editorial and/or other minor corrections (as indicated in my/the report) be made ()
3. The paper to be conditionally accepted, but that the author be allowed to revise/correct/extend the paper (as indicated in my report) and re-submit it for review ()
4. The paper/manuscript is rejected ()

Thanks

Dennis N. Ocholla

Editor-in-Chief SAJLIS