RESEARCH WRITING AND RESEARCH IMPACT MEASURES: WHAT LIBRARIANS NEED TO KNOW?

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Agenda

• Bench marking GCC LIS research
• Research publication process
• Quality and optimization of research publication
• Structuring of research publications
• Review and indexing process
• Research impact measures and evaluation metrics
• Author profiling and research networks
• Research Impact & University Rankings
• Q & A
Research Publications in All Disciplines Individual GCC Countries during 1996-2015

Visualization: Scival (Data: Scopus)
Research Publications in **Library and Information Sciences Individual GCC Countries** during 1996-2015

Visualization: Scival (Data: Scopus)
Research Publications in All Disciplines Singapore & Individual GCC Countries during 1996-2015

Visualization: Scival (Data: Scopus)
Research Publications in All Disciplines Singapore & GCC Countries together during 1996-2015

Data: Scopus

Visualization: Scival (Data: Scopus)

Data: Scopus
Research Publications in **Library and Information Science India & GCC Countries together** during 1996-2015

Data: Scopus
• Scholarly Communication - Only reviewed and indexed research pieces qualify for the ratings and rankings of Universities and Institutions worldwide.

• It is essential to bring a large number of ‘reviewed’ research papers in indexed journals.

• Many of us do not gain an understanding of this.

• Creating awareness among potential LIS young researchers, librarians and faculty is important.
Hints For Manuscript Writing

- Title
- Abstract
- Introduction
- Methods and Materials
- Results, Figures & Tables
- Discussion & Conclusion
- References & Keywords
- Language Syntax
Keep Title Simple, Specific & Concise
Not So Technical
Must address the Contents
Attractive
Better to Add Subtitle than having it too Long
It Should not Exaggerate
can be Indexed
ABSTRACT

• Must introduce the subject in 1-2 sentences, give background
• Must contain Aim Purpose Objective
• Must include Methods Results Conclusions
• Follow instructions e.g. Length of 300 words
• No Figures
• Most people just read the abstract, therefore give important details
INTRODUCTION

* Background of the subject, include Aim or purpose of the Research
* State what lead you to get into this Research.

* It Should Not Contain Discussion.
* should Not be too long
* Follow The Style of the Journal as per Guidelines
METHODS & MATERIALS

- Sufficient Details for Others to Reproduce Results
- Clear Succinct Details (No Secrets!)
- Hidden Data is Irritating to Editors & Reviewers
- Inclusion & Exclusion Criteria of Subjects
- Adequate Sample Size
- Justification of Certain techniques
- Alternative methods considered & problems explained
- Randomization method detailed & Justified!
RESULTS

Clear, Concise and Complete

Have to be Related to Methods

Unorganized or Confusing Results Exhaust Reviewers

Grouping of Results to Carry a Message & to Lead to Discussion helps the Reviewers

Figures – Sharp, Relevant Complete Legends

Tables - Clear Organized, Title & Footnotes
DISCUSSION

1st Discuss Own Data & must be Complete

Complete Referencing of Previous Studies

To avoid Reference to Literature that has Contrary Results is not acceptable

Editors do not ask for Subtitles, & No Need

Too Long a Discussion has Negative Impact

2nd Discuss & Compare with the Literature
CONCLUSION

- Must Address the Title
- Address the Hypothesis or the Questions Asked
- Conclusion must be Concise & to the Point
- Be Careful Not to Overstate and Never Conclude more than what your Data showed
- Not Necessary for Conclusion to be a Separate Section. It Can be just at the End of Discussion
REFERENCES

• Reference Original Articles,
• References Must be Complete
• They Must be Relevant
• Too Many References have a Negative Impact
• Style Must Comply with Journal Instructions
• Errors in References are Annoying to Editors & Reviewers, & Reflects Negatively on Authors
Submission

Basic Criteria

1st Screening (Chief Editor)

Accepted for peer review

Reviewer 1

Reviewer 2

Peer Review

Yes

Reviewer 3 (English grammar, language)

Chief Editor

Reviewer 4

Author Revise

Reviewer 1,2,3,4

Second Review (Chief Editor)

Rejected

Accepted for publication

Editorial Board Meeting (Issue designation)

Publish

Publishing Process (Elsevier)

Incorrect refs
Basic science

Return Manuscript

https://www.elsevier.com/reviewers/what-is-peer-review
Is the MS novel or new use of old tool?
Is it appropriate for the community?
Is it appropriate for the journal?
Is it relevant to the readers?
Is content good research & well done?
Is it significant & timely?
EDITOR EXPECTS FROM AUTHORS

- Submission of complete research data
- Carefully written MS, Figs. & Refs.
- Submission according to the journal style
- All instructions followed, e.g. If CD required
- Not to check with Editorial Office before prescribed time
- Submit extra data if not included in MS
- Submit reviewers names only if requested
- Editor may request author to submit raw data to the Journal’s Statistician
EDITOR EXPECTS An Ethical Manuscript

Copyright Laws Infringement

Plagiarism in any form

Duplicate Publication

“Ghost” Authorship

Bias and Conflicts

Ethical Research
INDEXING - Process of creating an index for all the fetched web pages and keeping them into a giant database from where it can later be retrieved. Essentially, the process of indexing is identifying the words and expressions that best describe the page and assigning the page to particular keywords.
Research Evaluation Metrics

Some numeric measures to gauge the performance and/or impact of a research publication/researcher/institution

- People based metrics
- Journal based metrics

AND Profiling
Citation matrix
Science Citation Index

Association-of-ideas index

cited article

cited article

cited article

citing article

citing article

citing article

citing article

citing article

citing article

citing article
Impact Metrics: People based citation count / citation report

- A citation report is a **collation of bibliographic details** for the documents an individual has authored, along with the **number of times those documents have been cited by others**.
Impact Metrics: People based h-Index

- Proposed by Jorge Hirsch in 2005
- Aims at productivity as well as impact.
- To have an h-index of H, H of a scholar’s publications must have been cited by others at least H times each.
- has limitations of incomparability across fields and across career stages.
### Impact Metrics: Journal based Impact Factor

Top Ranking 10 Journals in LIS

**Data: Journal Citation Report**

<table>
<thead>
<tr>
<th>Full Journal Title</th>
<th>Total Cites</th>
<th>Journal Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS QUARTERLY</td>
<td>11,320</td>
<td>5.384</td>
</tr>
<tr>
<td>JOURNAL OF INFORMATION TECHNOLOGY</td>
<td>1,695</td>
<td>4.775</td>
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<tr>
<td>Journal of Computer-Mediated Communication</td>
<td>3,160</td>
<td>3.541</td>
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<tr>
<td>JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION</td>
<td>6,622</td>
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<tr>
<td>INFORMATION SYSTEMS RESEARCH</td>
<td>5,175</td>
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<tr>
<td>JOURNAL OF MANAGEMENT INFORMATION SYSTEMS</td>
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<td>3.025</td>
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<tr>
<td>EUROPEAN JOURNAL OF INFORMATION SYSTEMS</td>
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<td>INFORMATION SYSTEMS JOURNAL</td>
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<tr>
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<tr>
<td>Information Systems Research</td>
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<td>College and Research Libraries</td>
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<td>Journal of Chemical Information and Modeling</td>
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<tr>
<td>Journal of the Association for Information Science and Technology</td>
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<td>Reference Services Review</td>
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<td>1.546</td>
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<tr>
<td>Journal of Information Technology</td>
<td>journal</td>
<td>1.474</td>
</tr>
</tbody>
</table>

Impact Metrics: Journal based
Free Impact Metrics

Top 10 LIS journals
Data: SCImago Journal Rank (SJR)
Why others would cite your work?

• To help readers understand the context of an argument, who may share their interest in a particular area of study.
• To allow them to acknowledge those authors whose research contributed to their learning and research.
• To illustrate their own learning process, also draw attention to the originality and legitimacy of their own ideas.
• To demonstrate their integrity and skill as a responsible researcher in their field of study.
• To reflect the careful and thorough work they have put into locating and exploring reference sources.

In a nutshell - To “stand on the shoulders of the giants” and then proceed in furthering the research.
• Supplementing Peer-Review, traditional citations
• Include discussion (e.g. Twitter), saving/downloads (e.g. Mendeley) Recommendations etc.
Author Profiling

• Creation of a unique author identifier.
• Most databases allow.
• Connect all your papers together within a database.
• Correctly identifying all publications by an author within a single database.
• Avoid confusions in multiple names (including maiden names), similar names/initials.
• Linking articles together will increase the h-index within a database.

Be ready to known as a NUMBER
Author Profiling
Author Identifiers

http://orcid.org/

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.

Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.
Open Access and Citation Impact

We Cite .. What We See.
By definition an open-access article has greater visibility, and it’s becoming evident that scientists do take the opportunity to read and use what they would otherwise not have seen.

Across a range of scholarly disciplines, opening access to articles increases their citation rate.
How are the rankings done?

Research publications impact on 38.5% of the total scores.

Where can research output increase the scores?

Improving the impact by increasing the visibility of the research.

For the latest World University Rankings news, debate and social networking, see www.timeshighereducation.co.uk/world-university-rankings/
Obstacles for Librarians’ ‘Research & Publications in GCC

- Language Barrier
- Arabic Journals are not Indexed
- Non Librarians Leadership
- Non Academic Status
Thank you

Vijay and Saif