




Measuring the Quality of your

Scholarship


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Scholarship Quality Metrics
Outline

- Motivation
- Scholarship Definition
- Publication/Presentation of Scholarship
- Metrics
- Discussion

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Scholarship Quality Metrics Motivation

- Full-professor with many years ahead before retirement. How do I stay interested?
- Center for Excellence in Scholarship and Research (CESR)
 - WA 325
 - Part of the College of Graduate Studies and Research

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Scholarship Quality Metrics Scholarship Definition

- Differs by discipline
- One taxonomy divides scholarship into four categories:
 - Discovery (research)
 - Integration
 - Application
 - Teaching

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Scholarship Quality Metrics Publication/Presentation

- Classic venues:
 - Journals
 - Books
 - Conference proceedings
 - Live performance
 - Exhibition
- Is it peer-reviewed?
- Regional/National/International?

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Scholarship Quality Metrics Metrics (I)

- Rank ordering of venue type:
 - Journal/conference/book
 - Order differs by discipline
- Historically, we count numbers of publications/presentations
 - Assumption is that all venues within one venue type are the same.
 - Reality: Wide variation within venue type and types overlap

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Scholarship Quality Metrics Metrics (II)

- Citation Counts
 - How much impact did the scholarship make in the discipline?
 - Many conference papers cited more than journal papers.
 - Can remove the “all venues within a venue type are the same” problem.
- Finding Citation Counts
 - <http://scholar.google.com/>
 - <http://citeseer.ist.psu.edu/>

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Scholarship Quality Metrics Metrics (III)

- Impact Factor
 - http://en.wikipedia.org/wiki/Impact_factor
- Example Calculation of Journal Impact Factor for 1992:
 - **A**= total cites in 1992
 - **B**= 1992 cites to articles published in 1990-91 (this is a subset of A)
 - **C**= number of articles published in 1990-91
 - **D**= B/C = 1992 impact factor

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Scholarship Quality Metrics Metrics (IV)

- How Computer Science research “quality” is measured in the United Kingdom:
 - Research Assessment Exercise done approximately every 5 years.
 - <http://www.rae.ac.uk>
 - Each CS researcher presents their “best” 5 papers.
 - Co-authored papers cannot be used by more than one of the co-authors.
 - A sum of “Impact Factor” values for these 5 papers is used to numerically assess research.

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Scholarship Quality Metrics Discussion

- Within your discipline, how do you:
 - Define Scholarship?
 - Discovery/integration/application/teaching
 - Describe scholarship dissemination venues and rank-order them?
 - Journals/books/conferences/exhibits
 - Count external grants?
- Any other comments are welcome

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