

An Introduction to the Scientific Publishing System for Educational Technology PhD Students

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An introduction to the scientific publishing “system” for Educational Technology PhD students

Lunch Meeting OTEC Development, 18.06.2007

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Overview

1. Scientific Publishing
2. Scientific Indexes
3. Open Access Publishing
4. The 10CC journal & conference list

Scientific publishing

What is scientific publishing?

- Publishing, that reports results from research that uses scientific methods?
- Publications from scientific organizations?
- Publishing in scientific journals & books?



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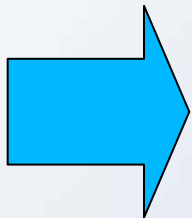
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Scientific publishing

My answer

Scientific publishing is the publication of contributions in outlets that are recognized as scientific



What is scientific is based on a social agreement and is socially determined!



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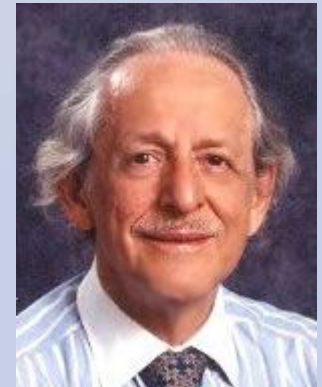
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Scientific Indexes

- ISI: The mother of all scientific indexes
 - Based on ideas of Eugene Garfield (Science 1955)
 - SCI (ca. 3700 journals), SSCI (ca. 1700 journals), AHCI (ca. 1100 journals)
 - Co-Citation analysis/Impact factor
 - Bibliometrics



Scientific Indexes

- The impact factor
 - Reported in the journal citation report (JCR)
 - Number of articles per year, Citations of these articles in itself or other scientific journals
 - Journal Impact Factor
 - Journal Immediacy Index
 - Cited/Cited Half-Life/

Scientific Indexes

- The impact factor (cont'd)
 - Impact factor 2007 calculation
 - A: Number of times articles published in 2005 were cited in other indexed journals
 - B: Number of articles, reviews etc. published in 2005

$$IF=A/B$$



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Scientific Indexes

- Alternatives
 - Scopus, Science Direct (Elsevier)
 - Citeseer (Computer Science), PsycInfo (Psychology), RePec (Economics), IEEExplore (CS)
 - Google Scholar, CrossRef



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Scientific Indexes

- Pros

- Objective Measurement Instrument of Scientific Output
- Impact Factor leads to Standardization for a Discipline

- Cons

- Very slow method: Always lacking behind
- Monopoly/Oligopoly
- Anglo-centric
- Journal-centric



Open Access Publishing

- Why Open Access?
 - To reach a higher impact (current discussion Craig et al. 2007)
 - Publicly funded research should be accessible by the public
 - To support the commons
 - Speed up innovation

Open Access Publishing

- Ways to OAP
 - Submit to OA journals
 - Deposit pre-prints/post-prints in OAI-compatible repositories (like Dspace)
 - Ensure that your publications are found by crawlers (e.g. GS)

Open Access Publishing

- The publishers (Sherpa Romeo List)
 - White Publishers: No self-archiving allowed
 - Yellow Publishers: Self-Archiving of Pre-Prints is allowed
 - Blue Publishers: Self-Archiving of Post-Prints is allowed
 - Green Publishers: Self-Archiving of Pre-and Post-Print allowed

The 10CC journal & conference list

- Available at <http://wiki.tencompetence.org>
 - Requests for new journals/conferences:
altjournals@gmail.com
 - Request for comments on the list. How can we improve it?
 - How can we enrich these list with individual experiences about review time for example?