Find, Cite, Publish - and get evaluated

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Search
Databases you know?
Databases

- Google
- Google Scholar
- PubMed
- Microsoft Academic Search
- SPIRES
- Inspire
- ACM Digital Library
- IEEE Computer Society
- JSTOR
- Scopus
PubMed

otool=iatistlib
Web of Knowledge

http://apps.isiknowledge.com/
Citation Management

- Citation Management
- Citing Papers
- Re-Reading Papers
- Formatting Papers
Citing & Re-Read Papers
Citation-management

- Store data about interesting papers
- add notes to the paper
- support for different citation styles
- organize PDFs
Software Solutions

- Endnote
- Zotero
- Mendeley
- Papers
- Citavi
- Sente
- JabRef
Example

Zotero

- Free Plug-in for Firefox
- Independent Application in Development (Alpha Version)
- Organize PDFs
- Lots of Citation Styles
Example Zotero
Publishing
Situation

• Scientists write papers
• Scientists peer review papers
• Publisher “print” papers
• Scientists/library pay publisher to read papers
• Prices for journals increase rapidly
Open Access

- Green Road: Scientists store private copy on private or institutional page (Selfarchiving)
- Golden Road: Journal is free accessible (e.g. PLoS Journals, BMC), Author pays (Open Access Journals)
Why should you care?

• Studies: Open Access Articles getting more often cited =>

• More people read your papers
OA @ IST

- Open Access Policy 2013
- Library will support you
Author contracts

- Read what you sign!
- If possible: don’t give all rights away
- Keep right for second publication (personal webpage, institution repository, subject repository)
- Contracts are negotiable
Evaluation
Goal: Measure the Quality of Science
Measurements

- Impact Factor
- Total Citations
- h-index
Impact Factor

- Developed by Eugene Garfield (ISI)
- Quality of a Journal
- Average citations an article in a journal got in the last 2 years
Impact Factor

- Nature 36.28
- Cell 32.40
- PLoS Biology 11.45
- IEEE T Pattern Anal 4.90
- PLoS ONE 4.09
- J American Math Soc. 3.84
Question

• Is a scientists who published only in high impact journals a good scientist?
• Is somebody who published only in low impact journals a bad scientist?
Example

100 citations in 2 year
Example

100 citations in 2 year

nature

Impact factor: 34.08
Example

100 citations in 2 year

2 citations in 2 year

nature

Impact factor: 34.08

Donnerstag, 16. Mai 13
Citations

- amount of citations all your papers got (source most time Web of Science)

Problems:
- Selfcitations:
  - Index without selfcitations
- One high cited paper is enough
h-index

• Goal: measurement of quality over time
• x papers have at minimum x citations
• 30 papers have at minimum 30 citations

Problems:
• new researchers have always a small number
• differences in research fields
109 citation

21.8 citation / article

h-index: 2
100 0 2 5 3

110 citation

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110 citation

22 citation / article
110 citation

22 citation / article

h-index: 3
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Ranking
Bibliometrics
110 citation
110 citations

22 citations/article
110 citation

22 citation / article

h-index: 2
Web of Science

http://apps.isiknowledge.com/
Scopus

http://www.scopus.org