How to measure scientific quality:
ISI Web of Knowledge
UPF April 7th 2006

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  Librarian
  UPF Library
Summary

1. **Bibliometrics, an introduction**
2. ISI Databases (summary view)
3. Web of Science
4. Journal Citation Reports
5. Other tools
6. The future of bibliometrics
7. Bibliography: Want to know more?
1. Bibliometrics: an introduction

- How to measure quality in the scientific world
  - Quality is subjective, but also a consensus
  - The goal is to find a quantitative method to evaluate quality.
  - Information metric studies are a good idea, even if they are controversial due to its limitations.
1. Bibliometrics: an introduction

- Bibliometrics and citation indexing
  - It’s a habit in the scientific world to cite previous work in the same field.
  - Why?
    ...To acknowledge previous work
    ...To back an opinion.
    ...To show familiarity with the field of research.
The roles of exchange rate management pose no such problem to those of us who see its purpose as being the avoidance of disequilibria, since we are happy to see such (small) realignments as may be needed for that purpose. Exchange rate management can still be used as a component of overall macroeconomic policy, with realignments simultaneously keeping the exchange rate where it ought to be and avoiding the emergence of situations where speculation might pose a serious problem. The major unresolved question is not the technical one of calculating equilibrium exchange rates but the political problem of persuading the authorities to regard exchange rates as a fit subject on which to accept technical advice which to have ideological hangups or to commit their prestige.

Institute of International Economics

Washington D.C.

References


1. Bibliometrics: an introduction

- The methods
  - Citation indexing:
    If the author cites this list of references, it is because all of them are about the same subject.

- Bibliometrics:
  If the author cites this list of references, it is because he/she thinks they are “good” papers.
1. Bibliometrics: an introduction

- The problems
  - Why people cite one paper and not another?
  - All citations have the same weight?
  - How pervasive is citation etiquette?
  - Self-citing: cheating or legitimate?
  - Popularity: there also fashion in science.
  - Co-authorship: only the first/s author/s gets credit!
1. Bibliometrics: an introduction

- The tools
  - Citation studies: take a list of papers in a field and analyze its references.
  - Citation databases: do the same but in a longitudinal (long-term) way: ISI databases
1. Bibliometrics: an introduction

- E. Garfield and the ISI (Institute of Scientific Information)
  - E. Garfield founded ISI in 1964.
  - He was not the first to do citation indexing but the first to do it in a longitudinal way.
  - ISI’s databases have become the favourite tool to evaluate quality in the scientific world.
1. Bibliometrics: an introduction

- ISI covers a limited selection of journals.

- The competition is fierce among journals to be among the “chosen ones”. As fierce as the competition between researchers to publish in them.

- ISI is used as an evaluation tool across the world: grants, promotion, etc, depend on ISI’s rankings.
1. Bibliometrics: an introduction

- ISI’s problems and limits
  - ISI is a private American enterprise, but it is used as an evaluation tool across the world.
  - The analysis is mainly automatic.
  - Its journal selection is controversial (non-English journals are underrepresented).
  - The solution would be the creation of a European / World Citation Index, but the problem is the sheer cost.
  - “Impactolatry” i.e. giving excessive credit to the database has become a problem in the academic world.
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5. Other tools
6. The future of bibliometrics
7. Bibliography: Want to know more?
2. ISI databases (summary view)

- Terms of license: the subscription is paid by the Spanish Ministry of Science and Technology

- It is important to “log out” when we have finished.
Please remember to log out when you have finished.

The Ministry pays for the subscription.

Access to the different databases
2. ISI databases (summary view)

- CrossSearch
- Web of Science
- Current Contents Connect
- ISI proceedings
- Derwent Innovations Index
- Journal Citation Reports
- Essential Science Indicators
- ISI HighlyCited.com
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7. Bibliography: Want to know more?
3. Web of Science (Social Science Citation Index)

- Three citation indexes
  - Social Science Citation Index
  - Science Citation Index
  - Art & Humanities Citation Index
- Two chemical databases.
3. Web of Science (Social Science Citation Index)

Social Science Citation Index (SSCI)

- 1275 journals in the social sciences, plus indexing of selected articles from 3300 scientific and technical journals
- 50 social science disciplines
- coverage from 1956
- abstracts in 60% of records.
- 2900 new records each week
3. Web of Science (Social Science Citation Index)

How to search

- General Search: using SSCI as a “normal” database (author, topic, source title and address).
- Cited Reference Search: citation index database.
3. Web of Science (Social Science Citation Index)

Tips about searching

- Use Boolean searching: AND, OR, NOT, SAME (two words in the same sentence)
- Use truncation: econ* or Me?ico
- Addresses are written as they appear in the original articles.
- Names are shortened to one surname and an initial for the first name.
Choose the database and time span.
Search Results -- Summary

TS=(management) AND AD=(Pompeu same Econ*)
DocType=All document types; Language=All languages; Database=SSCI; Timespan=1945-2004

11 results found

Use the checkboxes to select individual records for marking, then click Submit to add them to the Marked List.

1. Campsicura E
   Wage structures and family economies in the Catalan textile industry in an age of nascent capitalism
   CONTINUITY AND CHANGE 19: 255-281 Part 2 AUG 2004

2. Engwall L, Kipping M
   Introduction - The dissemination of management knowledge
   MANAGEMENT LEARNING 35 (3): 243-253 SEP 2004

3. Puig-Junoy J, Rovira J
   Issues raised by the impact of tax reforms and regional devolution on health-care financing in Spain, 1996-2002
   ENVIRONMENT AND PLANNING C-GOVERNMENT AND POLICY 22 (3): 453-454 JUN 2004

4. Rodriguez-Miguelez E, Herrero C, Pinto-Prades JL
   Using a point system in the management of waiting lists: the case of cataracts
   SOCIAL SCIENCE & MEDICINE 59 (3): 585-594 AUG 2004
Title: Wage structures and family economies in the Catalan textile industry in an age of nascent capitalism

Author(s): Campsicura E

Source: CONTINUITY AND CHANGE 19: 255-261 Part 2, AUG 2004

Document Type: Article

Language: English

Cited References: 43  Times Cited: 0  FIND RELATED RECORDS

Abstract: This article deals with changes in the management of industrial labour in Catalonia between 1830 and 1925. In the absence of state welfare, families developed a number of strategies to try and secure an adequate standard of living. During the nineteenth century, labour markets were informal, and workers’ contracts implicit. However, with the advent of scientific organization, wage agreements began to be recorded. The application of cooperative game theory illuminates the processes by which households in this era managed to generate income. Both kin- and non-kin-related networks were used to improve the living standards of the household. Strategies of co-residence initially developed by migrants were later imitated by locally born inhabitants. Initially, the living standards of migrants were thus higher than those of natives.

Addresses: Campsicura E (reprint author), Univ Pompeu Fabra, Dept Econ, Barcelona, Spain
Univ Pompeu Fabra, Dept Econ, Barcelona, Spain

Publisher: CAMBRIDGE UNIV PRESS, 40 WEST 20TH ST, NEW YORK, NY 10011-4211 USA

Subject Category: SOCIAL SCIENCES, INTERDISCIPLINARY
Choose the database and time span.
1. Kunreuther H, Pauly M
   Neglecting disaster: Why don't people insure against large losses?
   JOURNAL OF RISK AND UNCERTAINTY 28 (1): 5-21 JAN 2004
   Times Cited: 0

2. Schweitzer ME
   Stretching the truth: Elastic justification and motivated communication of uncertain information
   JOURNAL OF RISK AND UNCERTAINTY 23 (2): 157-201 SEP 2002
   Times Cited: 2

3. Kunreuther H
   Mitigation and financial risk management for natural hazards
   GENEVA PAPERS ON RISK AND INSURANCE-ISSUES AND PRACTICE 26 (2): 277-296 APR 2001
   Times Cited: 0

4. Froot KA
   The market for catastrophe risk: a clinical examination
   Times Cited: 8

5. Hsieh CK, Kunreuther HC
   The affective effect in insurance decisions
   JOURNAL OF RISK AND UNCERTAINTY 20 (2): 141-159 MAR 2000
   Times Cited: 6

5. Faure M, Penn P
   Retroactive liability and the insurability of long-tail risks
   INTERNATIONAL REVIEW OF LAW AND ECONOMICS 19 (4): 487-500 DEC
Title: The market for catastrophe risk: a clinical examination

Author(s): Froot KA


Document Type: Article

Language: English

Cited References: 35 Times Cited: 8

Abstract: This paper examines the market for catastrophe event risk - i.e., financial claims that are linked to losses associated with natural hazards, such as hurricanes and earthquakes. Financial management theory suggests protection by insurers and other corporations against the largest catastrophes is most valuable. However, most insurers purchase relatively little cat reinsurance against large events and premiums are high relative to expected losses. To understand why the theory fails, we examine transactions that look to classical markets, rather than traditional reinsurance markets, for risk-bearing capacity. We develop eight theoretical explanations and find the most compelling to be supply restrictions associated with capital market imperfections and market power exerted by traditional reinsurers. (C) 2001 Elsevier Science S.A. All rights reserved.

Author Keywords: reinsurance; catastrophe; risk management

Keywords Plus: UNDERINVESTMENT PROBLEM; INSURANCE POLICY; DEMAND

Addresses: Froot KA (reprint author), Harvard Univ, Sch Business, Nati Bur Econ Res, Soldiers Field, Boston, MA 02163 USA
Harvard Univ, Sch Business, Nati Bur Econ Res, Boston, MA 02163 USA
The paper by R Hogarthish appears under the name of its first author: Kunreuther.
Related Records -- Summary

The records below are related to this parent record and are sorted by the most shared references:
FROOT KA. The market for catastrophe risk: a clinical examination

Cited References: 35 References Selected: 35

826 results found
Go to Page: 1 of 83
Records 1 -- 10

Use the checkboxes to select individual records for marking, then click Submit to add them to the Marked List.

1. Cummins JD, Phillips PD, Smith SD Derivatives and corporate risk management: Participation and volume decisions in the insurance industry
   Times Cited: 1

2. Kunreuther H Mitigation and financial risk management for natural hazards
   GENEVA PAPERS ON RISK AND INSURANCE-ISSUES AND PRACTICE 26 (2): 277-296 APR 2001
   Times Cited: 0

3. Nell M, Richter A Improving risk allocation through indexed cat bonds
   GENEVA PAPERS ON RISK AND INSURANCE-ISSUES AND PRACTICE 29 (2): 183-201 APR 2004
   Times Cited: 0
How to search all cited references for Hogarth R.
Your search has found the following references. Select only those cited references you want to include, then click FINISH SEARCH.

(Hint: Look for variants. Papers are sometimes cited incorrectly.)

To find other references, click on those that cite the selected references. The completed search will be added to the search history.

(Limit by language and document type)

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<tr>
<th>Select</th>
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<th>Cited Work</th>
<th>Year</th>
<th>Volume</th>
<th>Page</th>
<th>Article ID</th>
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</tbody>
</table>
3,146 results found
Go to Page: 1 of 315
Records 1 -- 10

Use the checkboxes to select individual records for marking, then click Submit to add them to the Marked List.

1. Kee F, Owen T, Leatham R
   Decision making in a multidisciplinary cancer team: Does team discussion result in better quality decisions?
   MEDICAL DECISION MAKING 24 (6): 602-513 NOV-DEC 2004
   Times Cited: 0

2. Hamm RM
   Theory about heuristic strategies based on verbal protocol analysis: The emperor needs a shave
   MEDICAL DECISION MAKING 24 (6): 691-566 NOV-DEC 2004
   Times Cited: 0

3. Morrell K, Loan-Clarke J, Wilkinson A
   The role of shocks in employee turnover
   BRITISH JOURNAL OF MANAGEMENT 15 (4): 335-349 DEC 2004
   Times Cited: 0

4. Manoso V, Labrador FJ, Famannez-Alba A
   [Title not visible]
Summary

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4. Journal Citation Reports (JCR)

- General content:
  7000 scholarly and technical journals
  from 3300 publishers
  from 60 countries

- Social Sciences Edition
  1700 journals

- Evaluation and comparison of journals using citation data.
Journal Impact Factor

Cites in 2004 to articles published in: 2003 = 39  Number of articles published in: 2003 = 43
2002 = 56  2002 = 36
Sum: 96  Sum: 79
Calculation: Cites to recent articles = 39 / 96 = 1.241
Number of recent articles 79

Journal Immediacy Index

Cites in 2004 to articles published in 2004 = 9
Number of articles published in 2004 = 43
Calculation: Cites to current articles = 9 / 43 = 0.209
Number of current articles 43

Journal Cited Half-Life

The cited half-life for the journal is the median age of its articles cited in the current JCR year. Half of the citations to the journal are to articles published within the cited half-life.
Cited Half-Life: > 10.0 years

Breakdown of the citations to the journal by the cumulative percent of 2004 cites to articles published in the following years:

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<td># Cites from 2004</td>
<td>9</td>
<td>39</td>
<td>59</td>
<td>129</td>
<td>223</td>
<td>136</td>
<td>163</td>
<td>134</td>
<td>93</td>
<td>96</td>
<td>1985</td>
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<tr>
<td>Cumulative %</td>
<td>4.3</td>
<td>22.7</td>
<td>50.7</td>
<td>61.7</td>
<td>74.7</td>
<td>88.4</td>
<td>93.6</td>
<td>96.6</td>
<td>96.6</td>
<td>98.6</td>
<td>100%</td>
</tr>
</tbody>
</table>

Cited Half-Life Calculations:
The cited half-life calculation finds the number of publication years from the current JCR year that account for 50% of citations received by the journal. Read help for more information on the calculation.
Impact Factor Trend Graph: JOURNAL OF MANAGEMENT

Click on the "Return to Journal" button to view the full journal information.

*Impact Factor -- see below for calculations

The journal impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a particular year. The impact factor will help you evaluate a journal's relative importance, especially when you compare it to others in the same field. For more bibliometric data and information on this and other journal titles click on the "Return to Journal" button.

NOTE: Title changes and coverage changes may result in no impact factor for one or more years in the above graph.
4. Journal Citation Reports (JCR)

Definitions

- Impact factor: frequency with which the average article in a journal has been cited in a particular year.
- Immediacy index: how quickly the average article in a journal is cited
4. Journal Citation Reports (JCR)

Definitions

- Cited half-life: number of publication years from the current year which account for 50% of current citations received by a journal.

- Citing half-life: number of publication years from the current year that account for 50% of the current citations published by a journal.
4. Journal Citation Reports (JCR)

Definitions

- **Cited / citing journal**: JCR identifies those publications that most frequently cite or are cited by a particular journal.

- **Source data about the journal**.
<table>
<thead>
<tr>
<th>Select a JCR edition and year:</th>
<th>Select an option:</th>
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<td>JCR Science Edition</td>
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<td>O Search for a specific journal</td>
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<td>O View all journals</td>
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</table>

This product is best viewed in 800x600 or higher resolution.

The Notices file was last updated Mon Nov 14 11:25:17 2005.
### Subject Category Selection

1) Select one or more categories from the list.
   (How to select more than one)

   - INFORMATION SCIENCE & LIBRARY SCIENCE
   - INTERNATIONAL RELATIONS
   - LAW
   - MANAGEMENT
   - NURSING
   - PLANNING & DEVELOPMENT
   - POLITICAL SCIENCE
   - PSYCHIATRY
   - PSYCHOLOGY, APPLIED

2) Select to view Journal data or aggregate Category data.
   - View Journal Data - sort by: Impact Factor
   - View Category Data - sort by: Category Title

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Acceptable Use Policy

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## Journal Citation Reports

### 2004 JCR Social Science Edition

**Journal Summary List**

Journals from: **subject categories MANAGEMENT**

Sorted by: Impact Factor

---

**Ranking is based on your journal and sort selections.**

<table>
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<tr>
<th>Mark</th>
<th>Rank</th>
<th>Abbreviated Journal Title (linked to journal information)</th>
<th>ISSN</th>
<th>Total cites</th>
<th>Impact Factor</th>
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</table>
4. Journal Citation Reports (JCR)

How to export

- Mark all.
- Go to “marked list”.
- “Save to file”.
- Open from Microsoft Excel or similar (you will have to set up some values).
4. Journal Citation Reports (JCR)

Library user guide:

- Library webpage > Cómo buscar información > Cómo encontrar el factor de impacto de una revista

Cómo encontrar el factor de impacto de una revista

- ¿Qué es el factor de impacto?
- Quién calcula el factor de impacto
- ¿Qué es el cuartil?
- Cómo conocer el factor de impacto de una revista

El factor de impacto de una revista es la media de veces que en un año determinado fueron citados los artículos publicados por esa revista en los dos años anteriores.
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6. The future of bibliometrics
7. Bibliography: Want to know more?
5. Other tools

- **Essential Science Indicators**: compilation of essential science performance statistics and science trends data derived from ISI's databases.

- **ISI HighlyCited**: freely accessible web with basic data about the most cited researchers in any of the subject fields.
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6. The future of bibliometrics

Is ISI measuring web-based papers?

- Yes, in some cases, but only open-access e-journals.
- A minor but growing section of scientific communication has gone to the Internet (open archives).
- It’s a change in scholarly communication that could have deep implications for research evaluation.
6. The future of bibliometrics

Open citation journals and citation indexing
- Google Scholar
- Citeseer project
  [http://citeseer.ist.psu.edu/](http://citeseer.ist.psu.edu/)
6. The future of bibliometrics

National rankings

- In-Recs: http://ec3.ugr.es/in-recs/
- RESH: http://resh.cindoc.csic.es/
### ÍNDICE DE IMPACTO: 2004

**Población de revistas: 100**

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Summary

1. Bibliometrics, an introduction
2. ISI Databases (summary view)
3. Web of Science
4. Journal Citation Reports
5. Other tools
6. The future of bibliometrics
7. Bibliography: Want to know more?
7. Bibliography: Want to know more?


Thank your for your attention!

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