



اللَّهُمَّ ارْحَمْنَا

One Day Course on

**The Effective Use of Research
Tools Box and Resources**

The Effective Use of ***“Research Tools” and Resources – Part 1***

Nader Ale Ebrahim, PhD

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University of Malaya, Kuala Lumpur, Malaysia
www.researcherid.com/rid/C-2414-2009
<http://scholar.google.com/citations>

From: [Open Scholar C.I.C.](mailto:info@openscholar.org.uk) [mailto:info@openscholar.org.uk]
Sent: Friday, September 06, 2013 6:13 AM
To: Nader Ale Ebrahim
Subject: Re: Thanks - RE: Welcome to Open Scholar!

Dear Nader,

Thank you for your prompt response and for disseminating the [LIBRE](#) project. At the moment we are very busy preparing the beta release in October. It will be great to receive your early feedback once we start testing the platform.

By the way, I found your "research tools" mind map extremely useful. Amazing work you did there. We will promote this work through twitter.

all best wishes,
Pandelis

Abstract

With the increasing use of information and communications technology (ICT), researchers are able to use computer software tools to find, organize, analyze, and share relevant information. However, there are hundreds of such tools to select from, for various research-related uses. Nader has collected over 700 tools that can help researchers do their work efficiently. It is assembled as an interactive Web-based mind map, titled “[Research Tools](#)”, which is updated periodically.

“[Research Tools](#)” consists of a hierarchical set of nodes. It has four main nodes: (1) Searching the literature, (2) Writing a paper, (3) Targeting suitable journals, and (4) Enhancing visibility and impact of the research. Several free tools can be found in the child nodes. In this seminar some tools and their application in research will be described. The e-skills learned from the seminar are useful across various research disciplines and research institutions.

Problem statements

The search can be time consuming and sometimes tedious task. How can make it easier? How do deal with situations such as:

- “I just join as a new postgraduate student and I am not sure how to do a literature search”
- “I have been in research for some time now but I spend a lot of time to get the articles I want”
- “I am sure I have downloaded the article but I am not able to find it”
- “I wanted to write a new paper, how can I manage the references in the shortest possible time?”
- “I have many references, some of my old papers, and some of my current research. Sometimes, they are so many that I can’t recall where I have kept them in my folders!”
-
- “I have written an article and I am not able to find a proper Journal”
- "I want to increase the citation of my papers, how do I do?"

Objectives

The seminar seeks to serve the following objectives:

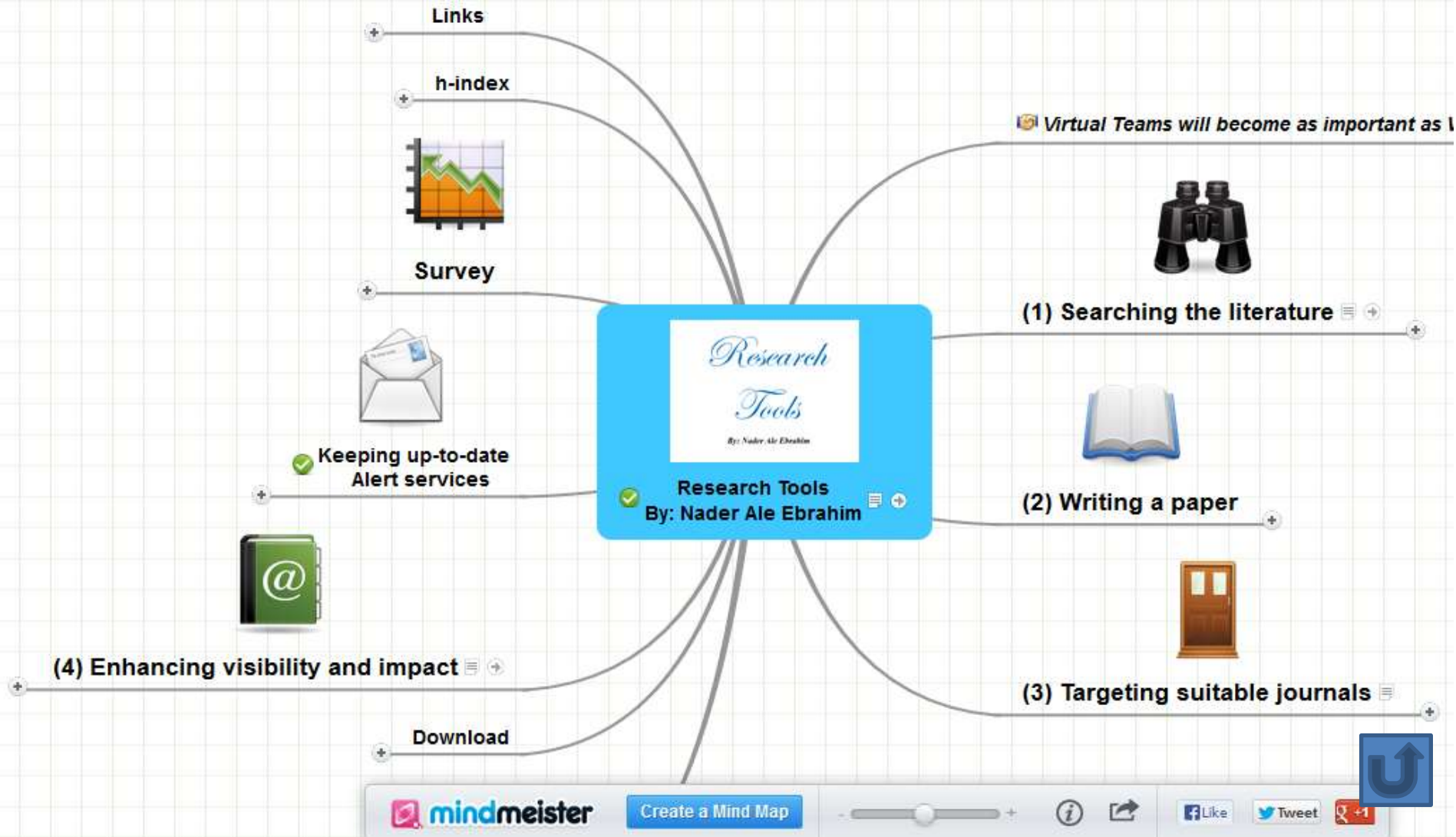
- i. To help students who seek to reduce the search time by expanding the knowledge of researchers to more effectively use the "tools" that are available through the Net.
- ii. To evaluate the types of literature that researchers will encounter.
- iii. To convert the information of the search for a written document.
- iv. To help researchers learn how to search and analyze the right journal to submit.
- v. To promote their publication for further citation.



Outline

1. [Introduce “Research Tools” Mind Map](#)
2. [Developing a search strategy](#)
3. Finding keyword
4. [Finding](#) proper articles
5. [Evaluate a paper/journal quality](#) (The impact factor-Journal ranking)
6. [To do an effective](#) literature search
7. [Keeping up-to-date](#) (Alert system)
8. Mind mapping tools
9. [Indexing desktop search tool](#)
10. [Q&A](#)

Research Tools Mind Map






**Developing a search strategy,
Finding keyword**

Effective searching

- » Developing a search strategy
- » Searching the library catalogue
- » Finding journal articles and papers
- » Searching the Internet
- » Other sources

Source: <http://learnline.cdu.edu.au/myresearch/plan/searchstrategy.html>

Developing a search strategy

- » Defining the topic
- » Considering the scope of your topic
- » Identifying the main or important aspects
-  » Compiling a list of keywords
- » Developing your search strategy
- It is important to develop a search strategy to, not only, find the information you need but to also clarify your topic.

How to Find and Develop a Viable Research Topic?

Step One: Identify a Topic.

Step Two: Test Your Topic.

Test the main concepts or keywords in your topic by looking them up in the appropriate background sources or by using them as search terms.

If you are finding too much information and too many sources, narrow your topic by using the **and** operator

Finding too little information may indicate that you need to broaden your topic.

Keywords

Selecting keywords lead to get more citation.

Google AdWords

Web of Science

MASTER KEYWORDS LIST
Journal of International Business Studies

Keyword Planner
Add ideas to your plan

Your product or service
virtual teams

Targeting

- Malaysia
- English
- Google
- Negative keywords

Customize your search

Keyword filters

- Avg. monthly searches ≥ 0
- Suggested bid \geq RM0.00
- Ad impr. share $\geq 0\%$

Keyword options

- Show broadly related ideas
- Hide keywords in my account
- Hide keywords in my plan

Include/Exclude

Ad group ideas | **Keyword ideas** | Download | Add all (214)

Search terms	Avg. monthly searches	Competition	Suggested bid	Ad impr. share	Add to plan
virtual teams	30	Low	RM4.69	0%	»

1 - 1 of 1 keywords

Keyword (by relevance)	Avg. monthly searches	Competition	Suggested bid	Ad impr. share	Add to plan
virtual team	70	Low	RM1.39	0%	»
team building	1,600	High	RM1.86	0%	»
teamwork	1,600	Low	RM0.46	0%	»
team building activities	1,000	High	RM1.51	0%	»
virtual teams definition	10	Low	-	0%	»
cross functional team	110	Low	-	0%	»

Your plan
Saved until Dec 16, 2013

Your plan is empty. Select an ad group idea or click "+" to start building a new ad group.

Ad groups: 0

Send feedback

File Home Insert Page Layout Formulas Data Analyse-it Review View Acrobat

Paste Cut Copy Format Painter Clipboard

Calibri 11 A A

B I U

Font

Alignment

Wrap Text Merge & Center

Number

Conditional Formatting as Table Styles

	A	B	C	D	E	F	G	H	I
1	Ad group	Keyword	Currency	Avg. monthly searches	Competition	Suggested	Impr. shar	In account	In plan
2	Seed Keywords	virtual teams	MYR	30	0.05	4.69	0	N	N
3	Keyword Ideas	virtual team	MYR	70	0.04	1.39	0	N	N
4	Keyword Ideas	team building	MYR	1600	0.71	1.86	0	N	N
5	Keyword Ideas	teamwork	MYR	1600	0.12	0.46	0	N	N
6	Keyword Ideas	team building activities	MYR	1000	0.76	1.51	0	N	N
7	Keyword Ideas	virtual teams definition	MYR	10	0.03		0	N	N
8	Keyword Ideas	cross functional team	MYR	110	0		0	N	N
9	Keyword Ideas	virtual team building	MYR	10	0.19		0	N	N
10	Keyword Ideas	cross culture	MYR	70	0.06		0	N	N
11	Keyword Ideas	team management	MYR	90	0.05		0	N	N
12	Keyword Ideas	virtual meeting	MYR	20	0.15	4.37	0	N	N
13	Keyword Ideas	types of teams	MYR	40	0.02		0	N	N
14	Keyword Ideas	virtual team definition	MYR	10	0.09		0	N	N
15	Keyword Ideas	self managed teams	MYR	30	0.01		0	N	N
16	Keyword Ideas	cultural sensitivity	MYR	40	0.02		0	N	N
17	Keyword Ideas	team bonding	MYR	30	0.22		0	N	N
18	Keyword Ideas	virtual work	MYR	20	0.11		0	N	N
19	Keyword Ideas	managing people in organization	MYR	10	0		0	N	N
20	Keyword Ideas	virtual team example	MYR	10	0.07		0	N	N
21	Keyword Ideas	virtual assistant jobs	MYR	20	0.44	0.09	0	N	N
22	Keyword Ideas	project team management	MYR	10	0.35		0	N	N
23	Keyword Ideas	global team	MYR	10	0		0	N	N
24	Keyword Ideas	project team development	MYR	10	0.11		0	N	N
25	Keyword Ideas	virtual jobs	MYR	10	0.23	0.65	0	N	N
26	Keyword Ideas	define business management	MYR	10	0.27		0	N	N
27	Keyword Ideas	managing virtual teams	MYR	10	0.08		0	N	N

KeyWords Plus

Hi there! This issue, we are going to explain how **KeyWords Plus** broadens your search. **KeyWords Plus** is the result of our Thomson Reuters editorial expertise in Science.

What our editors do is to review the titles of all references and highlight additional relevant but overlooked keywords that were not listed by the author or publisher. With **KeyWords Plus**, you can now uncover more papers that may not have appeared in your search due to changes in scientific keywords over time.

Thanks and keep your feedback and questions coming!

Smiles,

[Lim Khee Hiang](#)

Ph.D., Principal Consultant

Keywords Plus

- KeyWords Plus[®] are index terms created by Thomson Reuters from significant, frequently occurring words in the titles of an article's cited references.

Source: http://images.webofknowledge.com/WOK46/help/WOS/h_fullrec.html

Keywords and Keywords Plus®

Authors sometimes provide a list of keywords or terms that they feel best represent the content of their paper. These keywords are contained in the ISI record (1991 data forward, depending on the [database](#)) for each article and are searchable. In addition, ISI generates KeyWords Plus for many articles. KeyWords Plus are words or phrases that frequently appear in the titles of an article's references, but do not necessarily appear in the title of the article itself. KeyWords Plus may be present for articles that have no author keywords, or may include important terms not listed among the title, abstract, or author keywords.

Source: <http://wos.isitrial.com/help/helpdefs.html>

KeyWords Plus- Example

- New Product Development in Virtual Environment (ISI Indexed)
- Author Keywords: New product Development; Virtual teams; Concurrent Collaboration; Review paper
- KeyWords Plus: DEVELOPMENT TEAMS; PERFORMANCE; TECHNOLOGY; KNOWLEDGE; COMMUNICATION; PERSPECTIVE; INTEGRATION; INNOVATION; NETWORK; WORKING

Web of Knowledge [v.5.4] - Web of Science Results - Mozilla Firefox

File Edit View History Delicious Bookmarks Tools Help

http://ezproxy.um.edu.my:3661/summary.do?SID=Z1d%407L4GPA2ajNOHfc9&product=W isam upm

Most Visited Getting Started Post to CiteULike Import to Mendeley CiteULike: My publicat... Share Share on Facebook Google Bookmark RSS Feed Add to list Share on LinkedIn Add to Connotea

Diigo isam upm Bookmark Highlight Capture Comment Send Message (0) Read Later Unread Recent Add a filter Options isam upm Go premium!

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WEB OF KNOWLEDGESM | DISCOVERY STARTS HERE

THOMSON REUTERS

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All Databases | Select a Database | Web of Science | Additional Resources

Search | Author Finder | Cited Reference Search | Advanced Search | Search History

Web of ScienceSM

Results Topic=("virtual Teams")
 Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.
 Lemmatization=On

Scientific WebPlus^{WEB} View Web Results >>

Note: Alternative forms of your search term (for example, tooth and teeth) may have been applied, in particular for Topic or Title searches that do not contain quotation marks around the terms. To find only exact matches for your terms, turn off the "Lemmatization" option on the search page.

Results: **741** Page 1 of 75 Go Sort by: Publication Date -- newest to oldest

Save to: EndNote Web EndNote ResearcherID Analyze Results Create Citation Report

more options

- Title: **Factors of collaborative working: A framework for a collaboration model**
 Author(s): Patel Harshada; Pettitt Michael; Wilson John R.
 Source: APPLIED ERGONOMICS Volume: 43 Issue: 1 Pages: 1-26 DOI: 10.1016/j.apergo.2011.04.009 Published: JAN 2012
 Times Cited: 0 (from Web of Science)
[Full Text](#) [+ View abstract]
- Title: **Technology Adoption in Online Social Networks**
 Author(s): Peng Gang; Mu Jifeng
 Source: JOURNAL OF PRODUCT INNOVATION MANAGEMENT Volume: 28 Supplement: 1 Pages: 133-145 DOI:

Refine Results
 Search within results for
 Search

Web of Science Categories Refine

- MANAGEMENT (288)
- COMPUTER SCIENCE INFORMATION SYSTEMS (183)
- INFORMATION SCIENCE LIBRARY SCIENCE (122)
- BUSINESS (96)

Done

56:12 to Dhuhr Web of Knowledge [Web of Knowledge] Inbox - Microsoft O... 1 Reminder C:\Nader\Nader\Re... Microsoft PowerPoi... EN 12:04 PM

Web of ScienceSM

<< Back to previous results list

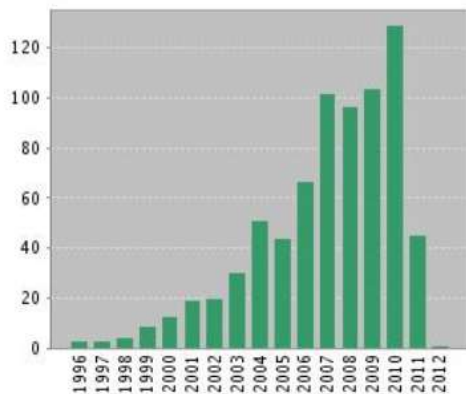
Citation Report

Topic=("virtual Teams")

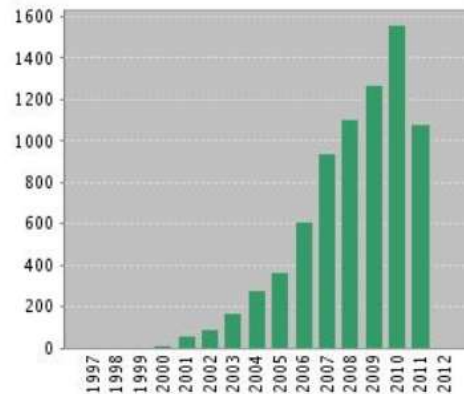
Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

This report reflects citations to source items indexed within Web of Science. Perform a Cited Reference Search to include citations to items not indexed within Web of Science.

Published Items in Each Year



Citations in Each Year



Results found: 741

Sum of the Times Cited [?]: 7561

Sum of Times Cited without self-citations [?]: 4771

Citing Articles[?]: 3928
[View Citing Articles](#)
[View without self-citations](#)

Average Citations per Item [?]: 10.20

h-index [?]: 42

Results: **741**

Page 1 of 75 [Go](#)

Sort by: Times Cited -- highest to lowest

2008 2009 2010 2011 2012 Total Average





Finding proper articles

Critically Analyzing Information Sources

1- Initial Appraisal:

Author

Date of Publication

Edition or Revision

Publisher

Title of Journal (Distinguishing Scholarly Journals from other Periodicals)

2- Content Analysis:

Intended Audience

Objective Reasoning

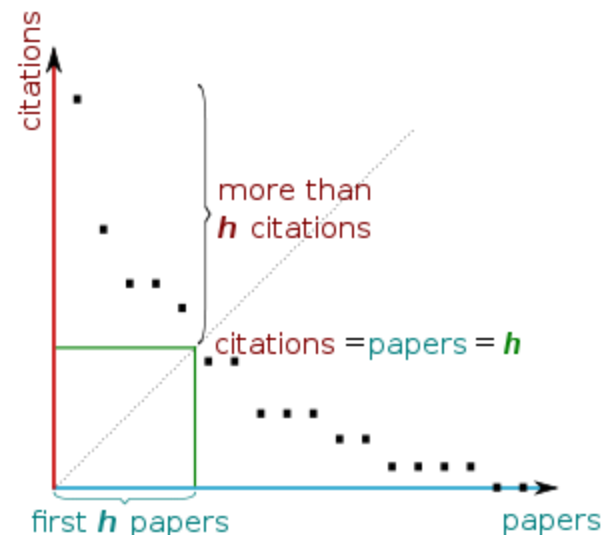
Coverage

Writing Style

Evaluative Reviews

h -index ([Jorge E. Hirsch](#))

- *A scientist has index h if h of [his/her] N_p papers have at least h citations each, and the other $(N_p - h)$ papers have at most h citations each.*



H-index from a plot of decreasing citations for numbered papers

A scientist has index h if h of his/her N_p papers have at least h citations each, and the other (N_p-h) papers have no more than h citations each.

As an example, a researcher with an H-index of 15 has (of their total number of publications) 15 papers which have been cited at least 15 times each.

Researcher A		Researcher B	
Paper rank	Citations	Paper rank	Citations
1	10	1	1348
2	8	2	159
3	6	3	50
4	5	4	4
5	4	5	4
6	0	6	3

Neither researcher can have an H-index of more than 6.

Source: <http://guides.is.uwa.edu.au/content.php?pid=372347&sid=3050052>

Table 2: Publication and citation list of scientist S1

Rank (squared) - Publications	Citations	Sum
1 (1) A	20	20
2 (4) B	10	30
3 (9) C	9	39
4 (16) D	8	47
5 (25) E	6	53
6 (36) F	6	59
7 (49) G	6	65
8 (64) H	5	70
9 (81) I	5	75

Source: [Rousseau, Ronald. "New developments related to the Hirsch index." \(2006\).](#)

Publish or Perish

Publish or Perish is a free program that retrieves citations from Google Scholar and allows users to calculate:

- Total number of papers
- Total number of citations
- Average number of citations per paper
- Average number of citations per author
- Average number of papers per author
- Average number of citations per year
- Hirsch's h-index and related parameters
- The contemporary h-index
- The age-weighted citation rate
- Two variations of individual h-indices
- An analysis of the number of authors per paper

Source: <http://guides.library.vu.edu.au/content.php?pid=251876&sid=2079929>

Citation analysis

- Author impact analysis
- Journal impact analysis
- General citation search
- Multi-query center
- Web Browser

Program maintenance

Check for updates

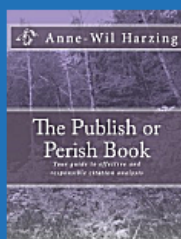
Help resources

- Help contents
- What's new?
- 2-Minute introduction
- Frequently Asked Questions
- Version information
- Publish or Perish home page
- The Publish or Perish Book

Alexa customer review

is an excellent source for PhDs and junior scholars who are looking to forge links with other academics in the field to build their networks."

[Open in browser...](#)



Author impact | Journal impact | General citations | Multi-query center | Web Browser

Author impact analysis - Perform a citation analysis for one or more authors

Author's name:

Exclude these names:

Year of publication between: and:

- Biology, Life Sciences, Environmental Science
- Business, Administration, Finance, Economics
- Chemistry and Materials Science
- Engineering, Computer Science, Mathematics
- Medicine, Pharmacology, Veterinary Science
- Physics, Astronomy, Planetary Science
- Social Sciences, Arts, Humanities

Lookup

Lookup Direct

Help

NOTE: Subject area selection is currently non-functional

Results

Papers:	419	Cites/paper:	141.05	h-index:	73
Citations:	59102	Cites/author:	52828.21	g-index:	242
Years:	238	Papers/author:	317.81	hc-index:	42
Cites/year:	248.33	Authors/paper:	1.91	hI,norm:	69

Lotfi A. Zadeh: all
 Query date: 2013-01-07
 Papers: 419
 Citations: 59102
 Years: 238

Copy results

Copy >

Check all

Check selection

Uncheck all

Uncheck 0 cites

Uncheck selection

Help

Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher
<input checked="" type="checkbox"/>	13522	329.80	1 LA Zadeh	Outline of a new approach to the analysis of comple...	1973	Systems, Man and Cybernet...	ieeexplore.ieee.org
<input checked="" type="checkbox"/>	7254	186.00	14 LA Zadeh	The concept of a linguistic variable and its application...	1975	Information sciences	Elsevier
<input checked="" type="checkbox"/>	4826	109.68	17 RE Bellman, LA Z...	Decision-making in a fuzzy environment	1970	Management science	mansci.journal.informs.org
<input checked="" type="checkbox"/>	1695	94.17	2 LA Zadeh	Fuzzy logic= computing with words	1996	Fuzzy Systems, IEEE Transa...	ieeexplore.ieee.org
<input checked="" type="checkbox"/>	1638	38.09	3 LA Zadeh	Similarity relations and fuzzy orderings	1971	Information sciences	Elsevier
<input checked="" type="checkbox"/>	1533	33.33	4 LA Zadeh	Probability measures of fuzzy events	1968	Journal of mathematical ana...	www-bisc.cs.berkeley.edu
<input checked="" type="checkbox"/>	1455	28.53	29 LA Zadeh, CA De...	Linear System Theory: {The} State Space Approach	1963		citeulike.org
<input checked="" type="checkbox"/>	1411	83.00	5 LA Zadeh	Toward a theory of fuzzy information granulation an...	1997	Fuzzy sets and systems	Elsevier
<input checked="" type="checkbox"/>	1255	40.48	6 LA Zadeh	A computational approach to fuzzy quantifiers in nat...	1983	Computers & Mathematics w...	Elsevier
<input checked="" type="checkbox"/>	1245	33.65	32 LA Zadeh	A Theory of Approximate Reasoning (AR).	1977		Electronics Research Labora...
<input checked="" type="checkbox"/>	1144	29.33	7 LA Zadeh	Fuzzy logic and approximate reasoning	1975	Synthese	Springer
<input checked="" type="checkbox"/>	1143	43.96	33 LA Zadeh	Fuzzy logic	1988	Computer	ieeexplore.ieee.org
<input checked="" type="checkbox"/>	1123	28.79	8 LA Zadeh	The concept of a linguistic variable and its application...	1975	Information sciences	Elsevier
<input checked="" type="checkbox"/>	1029	26.38	9 LA Zadeh	The concept of a linguistic variable and its application...	1975	Information science	ci.nii.ac.jp
<input checked="" type="checkbox"/>	937	46.85	10 LA Zadeh	Fuzzy logic, neural networks, and soft computing	1994	Communications of the ACM	dl.acm.org
<input checked="" type="checkbox"/>	858	27.68	40 LA Zadeh	The role of fuzzy logic in the management of uncerta...	1983	Fuzzy sets and Systems	Elsevier
<input checked="" type="checkbox"/>	705	16.79	11 LA Zadeh	A fuzzy-set-theoretic interpretation of linguistic hedges	1972		Taylor & Francis
<input checked="" type="checkbox"/>	618	68.67	12 LA Zadeh	Toward a generalized theory of uncertainty (GTU)—...	2005	Information sciences	Elsevier
<input checked="" type="checkbox"/>	588	16.33	45 LA Zadeh	PRUF—a meaning representation language for natur...	1978	International Journal of Man...	Elsevier
<input checked="" type="checkbox"/>	575	71.88	13 I Guyon, S Gunn, ...	Feature extraction: foundations and applications	2006		books.google.com
<input checked="" type="checkbox"/>	465	23.25	15 LA Zadeh	Soft computing and fuzzy logic	1994	Software, IEEE	ieeexplore.ieee.org
<input checked="" type="checkbox"/>	420	6.56	53 LA Zadeh	Frequency analysis of variable networks	1950	Proceedings of the IRE	ieeexplore.ieee.org
<input checked="" type="checkbox"/>	407	9.47	16 LA Zadeh	Quantitative fuzzy semantics	1971	Information sciences	Elsevier

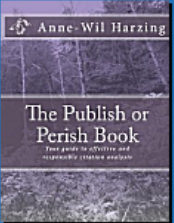
Harzing's Publish or Perish

File Edit View Tools Help

▼ Citation analysis
 Author impact analysis
 Journal impact analysis
 General citation search
 Multi-query center
 Web Browser

▼ Program maintenance
 Check for updates

▼ Help resources
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 Publish or Perish home page
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The Publish or Perish Book
 Want to know more about citation analysis across disciplines? The Publish or Perish book reviews the evidence.
 More about this book...

Author impact | Journal impact | **General citations** | Multi-query center | Web Browser

General citation search - Perform a general citation search

Author(s):
 Publication:
 All of the words:
 Any of the words:
 None of the words:
 The phrase:
 Year of publication between: and:

Biology, Life Sciences, Environmental Science
 Business, Administration, Finance, Economics
 Chemistry and Materials Science
 Engineering, Computer Science, Mathematics
 Medicine, Pharmacology, Veterinary Science
 Physics, Astronomy, Planetary Science
 Social Sciences, Arts, Humanities
 Title words only

NOTE: Subject area selection is currently non-functional

Buttons: Lookup, Lookup Direct, Help

Results

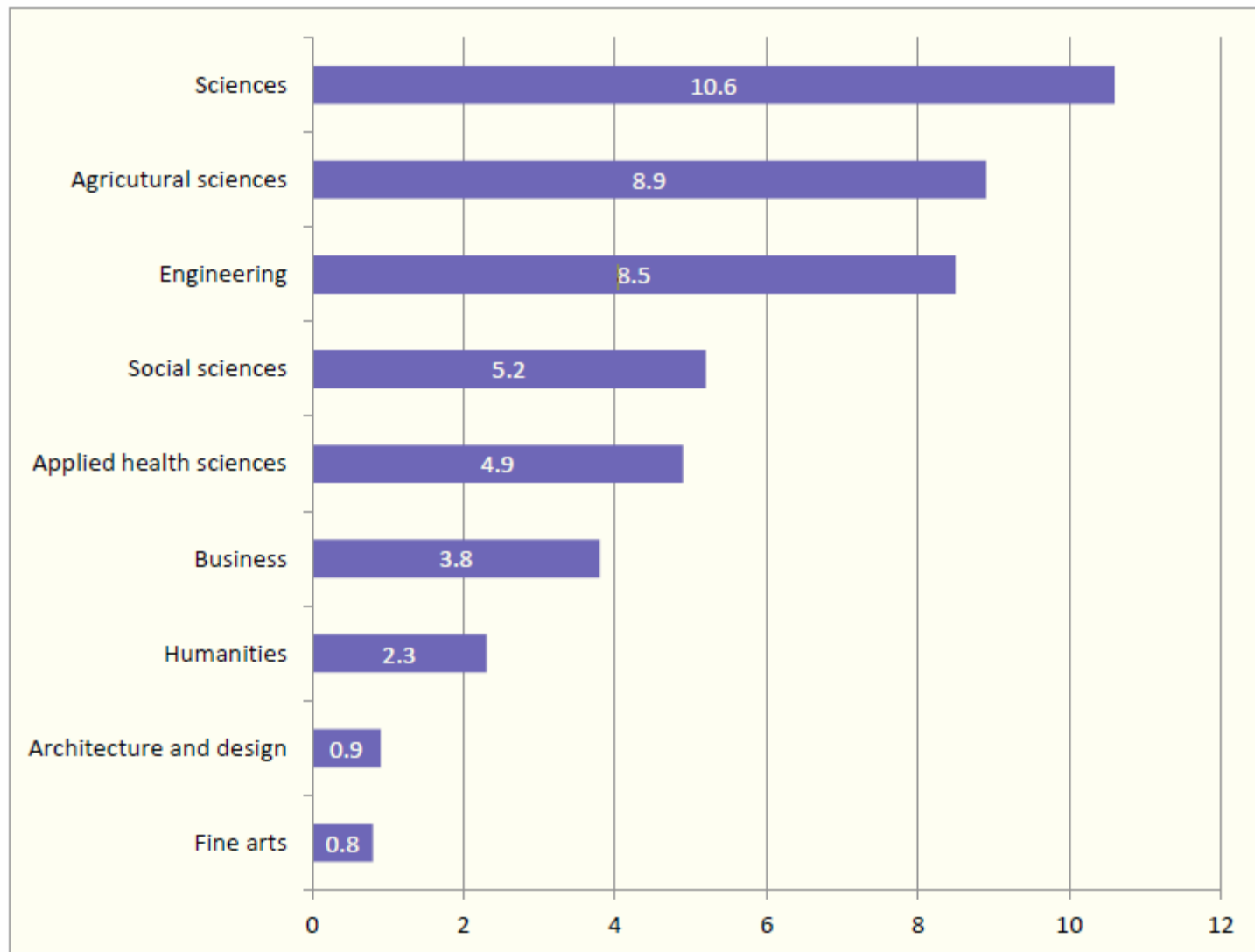
Papers: 1000 Cites/paper: 151.56 h-index: 130
 Citations: 151557 Cites/author: 122177.09 g-index: 370
 Years: 42 Papers/author: 562.97 hc-index: 56
 Cites/year: 3608.50 Authors/paper: 2.24 hI,norm: 97

analysis of complex systems and decision processes: all
 Query date: 2013-01-07
 Papers: 1000
 Citations: 151557
 Years: 42

Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher
<input checked="" type="checkbox"/>	39481	4386.78	4	L Zadeh	2005	Logic, Thought and Action	Springer
<input checked="" type="checkbox"/>	13522	329.80	1	LA Zadeh	1973	Systems, Man and Cybernet...	ieeexplore.ieee.
<input checked="" type="checkbox"/>	7254	186.00	8	LA Zadeh	1975	Information sciences	Elsevier
<input checked="" type="checkbox"/>	6829	325.19	127	JSR Jang	1993	Systems, Man and Cybernet...	ieeexplore.ieee.
<input checked="" type="checkbox"/>	6178	181.71	111	D DuBois, HM Prade	1980	Fuzzy sets and systems: theory and applications	books.google.cc
<input checked="" type="checkbox"/>	3520	90.26	12	EH Mamdani, S Assil...	1975	International journal of man...	Elsevier
<input checked="" type="checkbox"/>	3162	632.40	811	TJ Ross	2009	Fuzzy logic with engineering applications	books.google.cc
<input checked="" type="checkbox"/>	2838	70.95	9	EH Mamdani	1974	... Engineers, Proceedings o...	ieeexplore.ieee.
<input checked="" type="checkbox"/>	1695	94.17	271	LA Zadeh	1996	Fuzzy Systems, IEEE Transa...	ieeexplore.ieee.
<input checked="" type="checkbox"/>	1535	80.79	345	JSR Jang, CT Sun	1995	Proceedings of the IEEE	ieeexplore.ieee.
<input checked="" type="checkbox"/>	1143	43.96	166	LA Zadeh	1988	Computer	ieeexplore.ieee.
<input checked="" type="checkbox"/>	891	38.74	424	S Keshav	1991	A control-theoretic approach to flow control	dl.acm.org
<input checked="" type="checkbox"/>	858	27.68	30	LA Zadeh	1983	Fuzzy sets and Systems	Elsevier
<input checked="" type="checkbox"/>	820	23.43	58	TJ Procyk, EH Mam...	1979	Automatica	Elsevier
<input checked="" type="checkbox"/>	774	48.38	132	S Loncaric	1998	Pattern recognition	Elsevier
<input checked="" type="checkbox"/>	767	36.52	14	JSR Jang, CT Sun	1993	Neural Networks, IEEE Tran...	ieeexplore.ieee.
<input checked="" type="checkbox"/>	762	26.28	26	M Sugeno	1985	Information sciences	Elsevier
<input checked="" type="checkbox"/>	639	16.82	7	HJ Zimmermann	1976	Description and optimization of fuzzy systems	Taylor & Francis
<input checked="" type="checkbox"/>	618	68.67	84	LA Zadeh	2005	Information sciences	Elsevier

Buttons: Copy results, Copy >, Check all, Check selection, Uncheck all, Uncheck 0 cites, Uncheck selection, Help

Figure 1: Mean H-index Scores by Field of Study



[Source: Making Research Count: Analyzing Canadian Academic Publishing Cultures](#)

Scott J. Shenker - Mozilla Firefox

http://academic.research.microsoft.com/Author/196415/scott-j-shenker

Microsoft Academic Search

Advanced Search

Academic > Author > Scott J. Shenker

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Scott J. Shenker University of California Berkeley [Edit](#)

Publications: 479 | Citations: 34942 | G-Index: 183 | H-Index: 87

Interests: Networks & Communications, Distributed & Parallel Computing, Operating Systems

Collaborated with 375 co-authors from 1982 to 2010; Cited by 22343 authors

[Homepage](#) | [Bing](#)

Co-author Path

26405

2

1975 1979 1983 1987 1991 1995 1999 2003 2007 2011

publications citations

Cumulative Annual

Conference (41)

SIGCOMM

INFOCOM

NSDI

IPTPS

PODC

Journal (35)

CCR

Publication (479) [BibTeX](#) Order by: Year [View...](#)

[Delay scheduling: a simple technique for achieving locality and fairness in cluster scheduling](#) (Citations: 3)

Matei Zaharia, Dhruba Borthakur, Joydeep Sen Sarma, Khaled Elmeleegy, **Scott Shenker**, Ion Stoica

Conference: EuroSys - EUROSYS, pp. 265-278, 2010

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Academic > Author > Scott J. Shenker > Visual Explorer

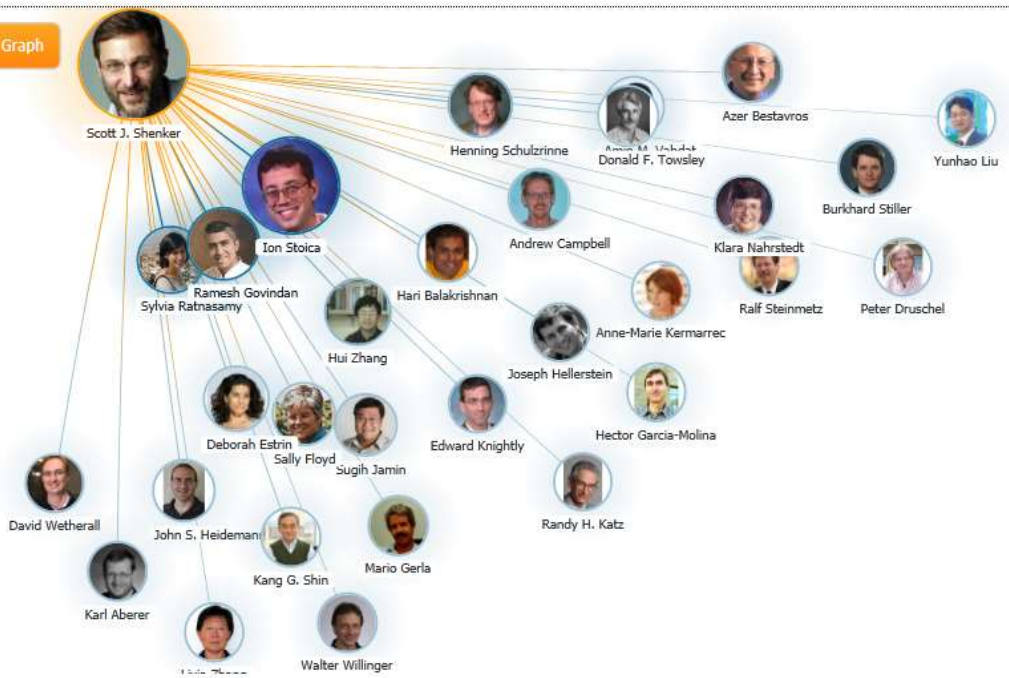
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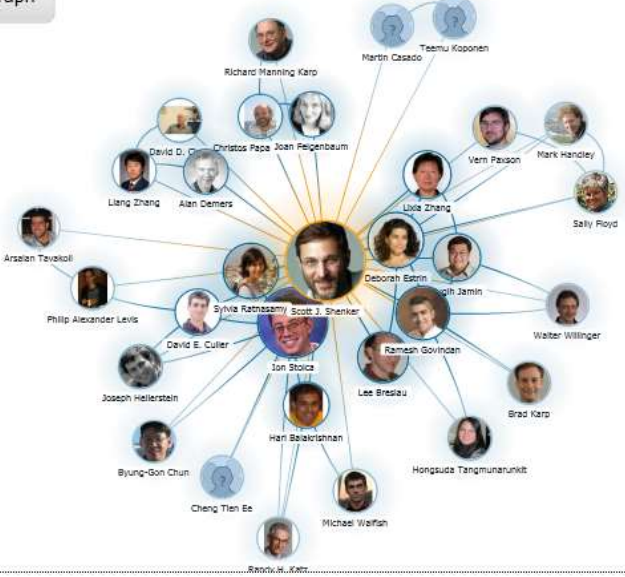
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 - Arts & Humanities Citation Index ®.

Source: <http://guides.library.vu.edu.au/content.php?pid=251876&sid=2079929>

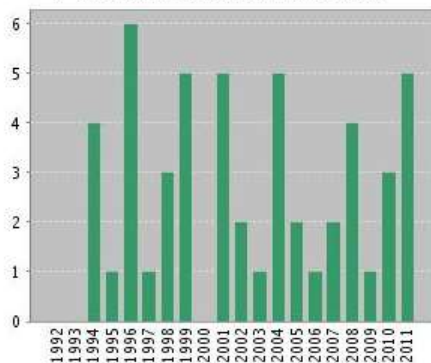
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Citation Report Distinct Author Summary: Zadeh, LA
 Timespan=All Years. Databases=SCI-EXPANDED, A&HCI, SSCI, CPCI-SSH, CPCI-S.

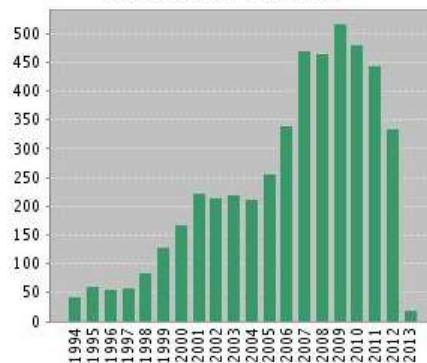
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Published Items in Each Year



The latest 20 years are displayed.
[View a graph with all years.](#)

Citations in Each Year



The latest 20 years are displayed.
[View a graph with all years.](#)

Results found: 75
Sum of the Times Cited [?]: 5187
Sum of Times Cited without self-citations [?]: 5114
Citing Articles [?]: 4159
Citing Articles without self-citations [?]: 4130
Average Citations per Item [?]: 69.16
h-index [?]: 26

Results: **75**

[<<](#) Page of 8 [Go](#) [>>](#)

Sort by: Times Cited -- highest to lowest





**Evaluate a paper/journal quality
&
Do an effective literature search**

Paper/journal quality

- Another guide to paper/journal quality is the general reputation of the association, society, or organization publishing the journal.
- Leading professional associations such as American Psychological Association (APA) or the Institute of Electrical and Electronics Engineers (IEEE) publish a range of journals that are highly regarded.

Web application to calculate the single publication h index



Web application to calculate the single publication *h* index (and further metrics) based on Google Scholar

by [Andreas Thor](#) (University of Leipzig, Germany) and [Lutz Bornmann](#) (Max Planck Society, Germany)

- 1 Search Google Scholar
- 2 Select **one** publication (you may additionally select duplicates)

virtual teams: a literature review

<input type="checkbox"/>	title	authors	year	citatio...
<input checked="" type="checkbox"/>	Virtual teams: a literature review	N Ale Ebrahim, S Ahmed, ...	2009	61
<input type="checkbox"/>	Virtual teams: a review of current literature and directions for future research	A Powell, G Piccoli, B Ives	2004	862
<input type="checkbox"/>	How do virtual teams process information? A literature review and implications f...	PL Curseu, R Schalk, I W...	2008	54
<input type="checkbox"/>	A typology of virtual teams implications for effective leadership	BS Bell, SWJ Kozlowski	2002	685
<input type="checkbox"/>	Implementing virtual teamworking. Part 1: a literature review of best practice	J Bal, PK Teo	2000	45
<input type="checkbox"/>	Managing virtual teams: A review of current empirical research	G Hertel, S Geister, U Kon...	2005	447
<input type="checkbox"/>	Virtual R&D teams in small and medium enterprises: A literature review	N Ale Ebrahim, S Ahmed, ...	2009	55
<input type="checkbox"/>	Bridging space over time: Global virtual team dynamics and effectiveness	ML Maznevski, KM Chudo...	2000	1211
<input type="checkbox"/>	Leadership in research and development organizations: A literature review and	T Elkina, DT Keller	2002	407

The single publication h index has been introduced by Schubert (2009) as the h-index calculated from the list of citing publications of one single publication.

Source: <http://labs.dbs.uni-leipzig.de/gsh/>

For More Info.

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ts.training.asia@thomson.com

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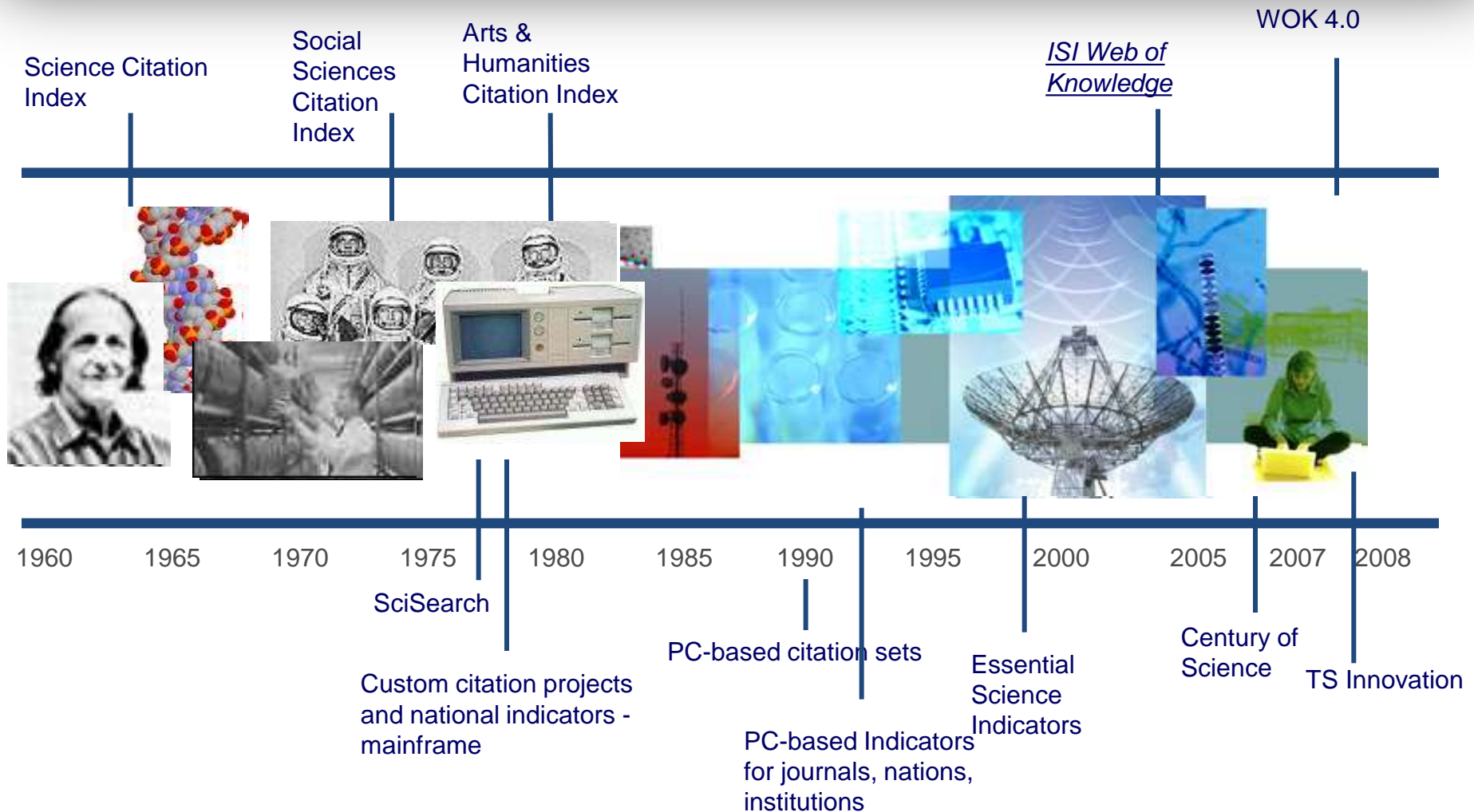


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- The **Institute for Scientific Information** (ISI) was founded by [Eugene Garfield](#) in 1960. It was acquired by [Thomson Scientific & Healthcare](#) in 1992, became known as **Thomson ISI** and now is part of the Healthcare & Science business of the multi-billion dollar [Thomson Reuters Corporation](#).
- ISI offered [bibliographic database](#) services. Its speciality: [citation indexing](#) and analysis, a field pioneered by Garfield. It maintains citation databases covering thousands of [academic journals](#), including a continuation of its long time print-based indexing service the [Science Citation Index](#) (SCI), as well as the [Social Sciences Citation Index](#) (SSCI), and the [Arts and Humanities Citation Index](#) (AHCI). All of these are available via ISI's [Web of Knowledge](#) database service.

Thomson Reuters (formerly ISI) has been the authority on citation data for over 50 years.



Eugene Garfield, Ph.D.



Founder & Chairman Emeritus
Institute for Scientific Information (ISI)

[For more Info](#)

The Institute for Scientific Information (ISI)

- The ISI also publishes annual [Journal Citation Reports](#) which list an [impact factor](#) for each of the journals that it tracks. Within the scientific community, journal impact factors play a large but controversial role in determining the kudos attached to a scientist's published research record.

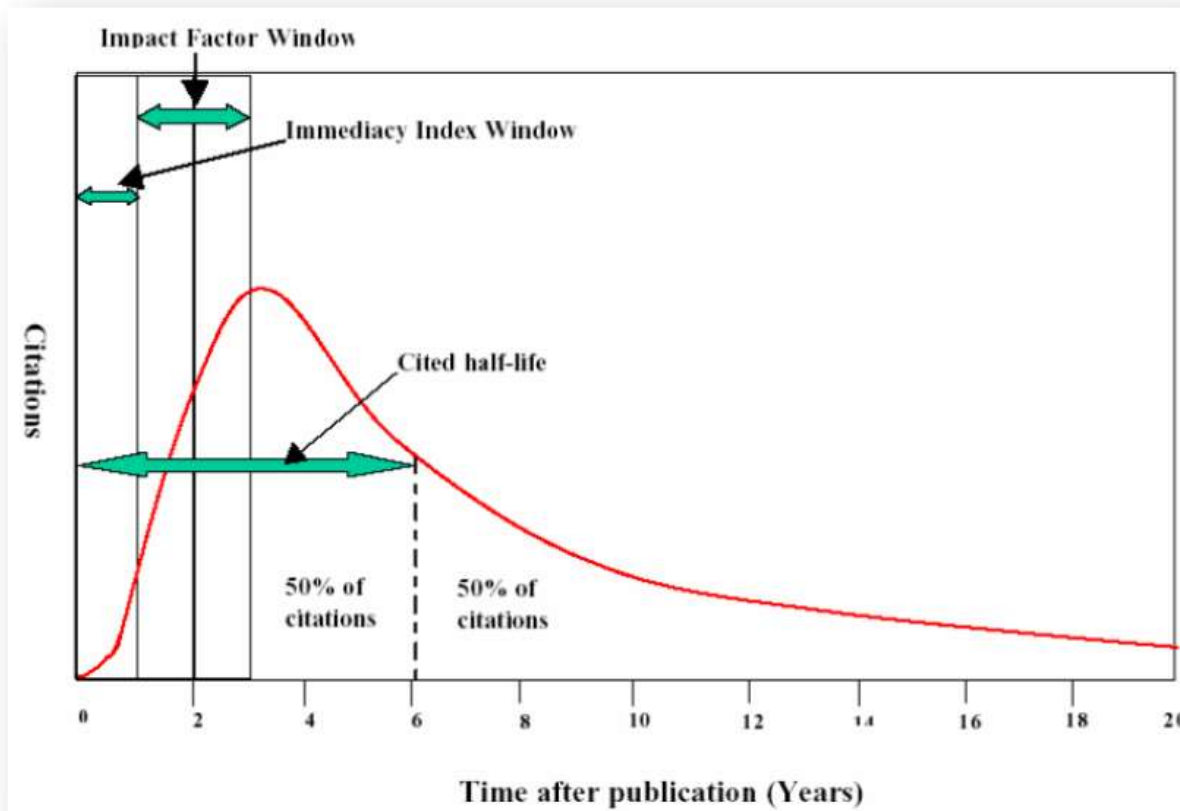
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Impact Factor

- The most commonly used measure of journal quality is Impact Factor. This is a number which attempts to measure the impact of a journal in terms of its influence on the academic community. Impact Factors are published by Thomson-ISI

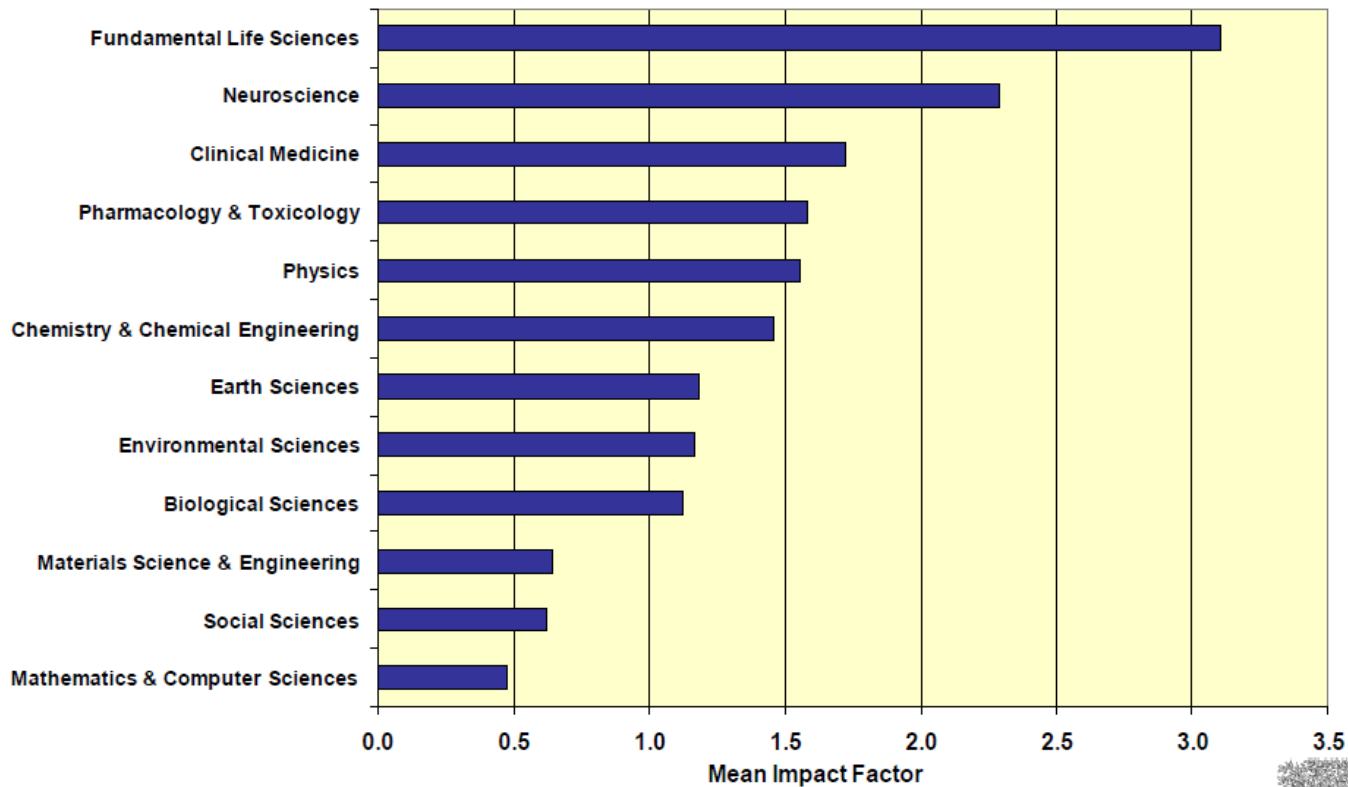
Impact Factor and other bibliometric parameters



Impact Factor-Journal Ranking

- Relative impact factors are often a better guide to the importance of a journal than raw numbers. *JCR* allows you to compare the impact factors of different journals in the same subject area
- The *Economic History Review* has an impact factor of 1.051. At first glance, it would appear that this journal is relatively unimportant. In fact, it is arguably the premier English-language journal in its field (its major competitor, the *Journal of Economic History Review*, has an even lower impact factor: a mere 0.529!). Far more illuminating is the journal's relatively high impact factor compared to other journals in the history of the social sciences. *Economic History Review* ranks first out of 15 journals in the Thomson-ISI's list of journals in this sub-discipline.

Influences on Impact Factors: Subject Area



What are journal impact factors?

Impact factors are a measure of the "quality" of a journal - they identify the most frequently cited journals in a field.

Impact factors can be used to:

identify journals in which to publish

identify journals relevant to your research

confirm the status of journals in which you have published

The Impact factor formula

The impact factor of a journal is based on the average number of times that articles published in that journal in the two previous years (e.g. 2008 and 2009) were cited in the subsequent year (i.e. 2010). This is calculated using the following formula:

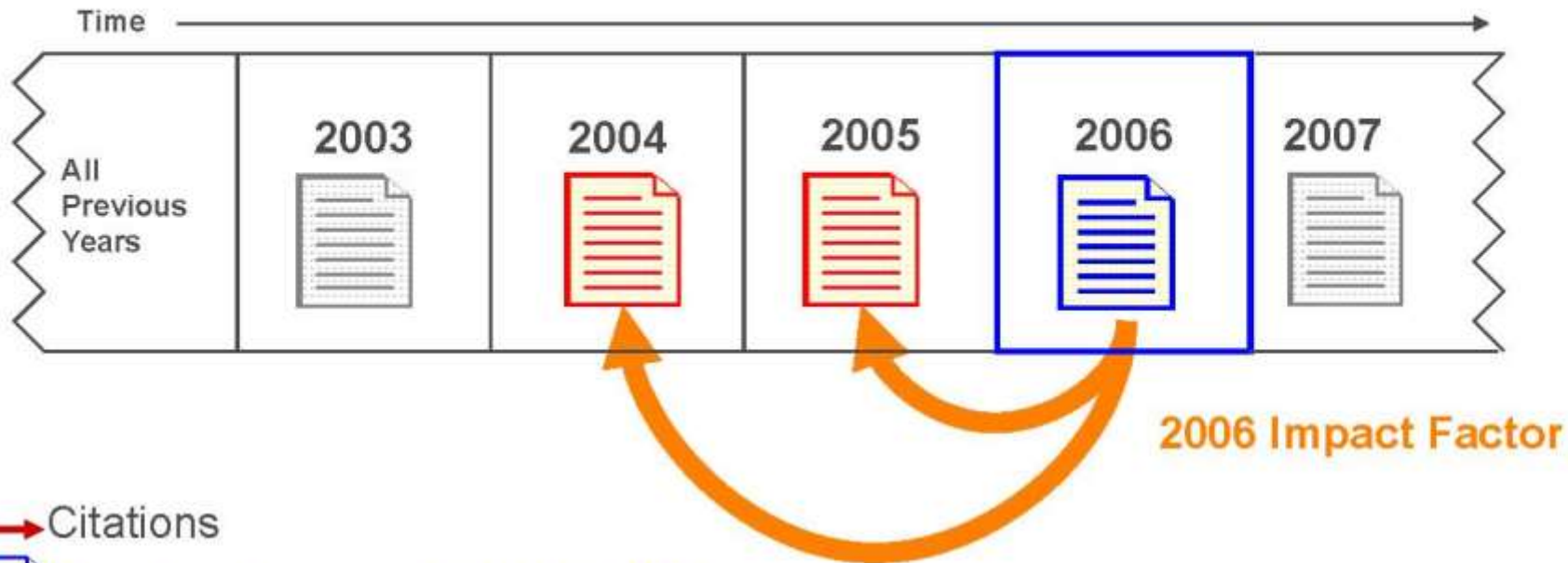
$$= \frac{\text{Cites in 2010 to items published in 2008 and 2009}}{\text{Number of items published in 2008 and 2009}}$$


If an impact factor is lower than 1.0 that means there were more articles published in the journal than there were cites to those articles in any given year.

Source: <http://guides.library.vu.edu.au/content.php?pid=251876&sid=2437240>

Be aware that...

- Many journals do not have an impact factor (sources other than JCR need to be consulted).
- The impact factor cannot assess the quality of individual articles.
- Only research articles, technical notes and reviews are “citable” items. Editorials, letters, news items and meeting abstracts are “non-citable items”.



 Source paper – published in 2006

 Cited reference – published in 2004 or 2005

$$\text{Impact Factor} = \frac{\text{Cites in 2006 to 2004 and 2005 papers}}{\text{Papers published in 2004 and 2005}}$$

The average number of citations in 2006 to scholarly material that was published in the prior two years

INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH

Impact Factor in 2008

Cites in 2008 to items published in:	2007 =	144	Number of items published in:	2007 =	278
	2006 =	280		2006 =	270
	Sum:	424		Sum:	548

Calculation: $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{424}{548} = \mathbf{0.774}$

ISI Web of KnowledgeSM

Journal Citation Reports[®]

WELCOME HELP RETURN TO LIST PREVIOUS JOURNAL NEXT JOURNAL 2008 JCR Science Edition

Journal: INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH

Mark	Journal Title	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	INT J PROD RES	0020-7543	5900	0.774	1.380	0.132	325	9.0	9.8

[Cited Journal](#) [Citing Journal](#) [Source Data](#) [Journal Self Cites](#)

[CITED JOURNAL DATA](#) [CITING JOURNAL DATA](#) [IMPACT FACTOR TREND](#) [RELATED JOURNALS](#)



Journal Information ⓘ

Full Journal Title: INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH
ISO Abbrev. Title: Int. J. Prod. Res.
JCR Abbrev. Title: INT J PROD RES
ISSN: 0020-7543
Issues/Year: 18
Language: MULTI-LANGUAGE
Journal Country/Territory: ENGLAND
Publisher: TAYLOR & FRANCIS LTD
Publisher Address: 4 PARK SQUARE, MILTON PARK, ABINGDON OX14 4RN, OXON, ENGLAND
Subject Categories: ENGINEERING, INDUSTRIAL

Eigenfactor™ Metrics
Eigenfactor™ Score
 0.01042
Article Influence™ Score
 0.360

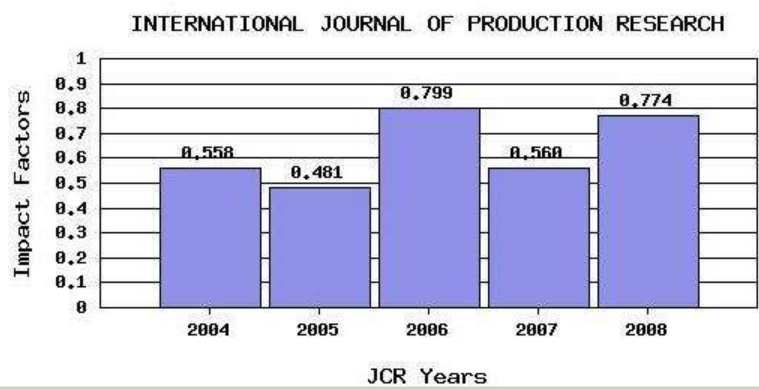
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 OPERATIONS RESEARCH & MANAGEMENT SCIENCE [SCOPE NOTE](#) [VIEW JOURNAL SUMMARY LIST](#) [VIEW CATEGORY DATA](#)

Journal Rank in Categories: [JOURNAL RANKING](#)

Journal Impact Factor ⓘ

Cites in 2008 to items published in: 2007 = 144 Number of items published in: 2007 = 278
 2006 = 280 2006 = 270
 Sum: 424 Sum: 548
 Calculation: $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{424}{548} = 0.774$

Impact Factor Trend Graph: INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH
 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.

2008 Impact Factor

Cites in 2008 to articles published in: 2007 = 144 Number of articles published in: 2007 = 278
 2006 = 280 2006 = 270
 Sum: 424 Sum: 548
 Calculation: $\frac{\text{Cites to recent articles}}{\text{Number of recent articles}} = \frac{424}{548} = 0.774$

2007 Impact Factor

Cites in 2007 to articles published in: 2006 = 88 Number of articles published in: 2006 = 270
 2005 = 204 2005 = 251
 Sum: 292 Sum: 521
 Calculation: $\frac{\text{Cites to recent articles}}{\text{Number of recent articles}} = \frac{292}{521} = 0.560$

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Journal: INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH

Mark	Journal Title	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	INT J PROD RES	0020-7543	5900	0.774	1.380	0.132	325	9.0	9.8

[Cited Journal](#) [Citing Journal](#) [Source Data](#) [Journal Self Cites](#)

[CITED JOURNAL DATA](#) [CITING JOURNAL DATA](#) [IMPACT FACTOR TREND](#) [RELATED JOURNALS](#)

Journal Information ⓘ

Full Journal Title: INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH
ISO Abbrev. Title: Int. J. Prod. Res.
JCR Abbrev. Title: INT J PROD RES
ISSN: 0020-7543
Issues/Year: 18
Language: MULTI-LANGUAGE
Journal Country/Territory: ENGLAND
Publisher: TAYLOR & FRANCIS LTD
Publisher Address: 4 PARK SQUARE, MILTON PARK, ABINGDON OX14 4RN, OXON, ENGLAND
Subject Categories: ENGINEERING, INDUSTRIAL

Eigenfactor™ Metrics
Eigenfactor™ Score
 0.01042
Article Influence™ Score
 0.360

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Journal Rank in Categories: [JOURNAL RANKING](#)

Journal Impact Factor ⓘ

Cites in 2008 to items published in: 2007 = 144 Number of items published in: 2007 = 278
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Rank in Category: INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH

Journal Ranking ⓘ

For 2008, the journal **INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH** has an Impact Factor of **0.774**.

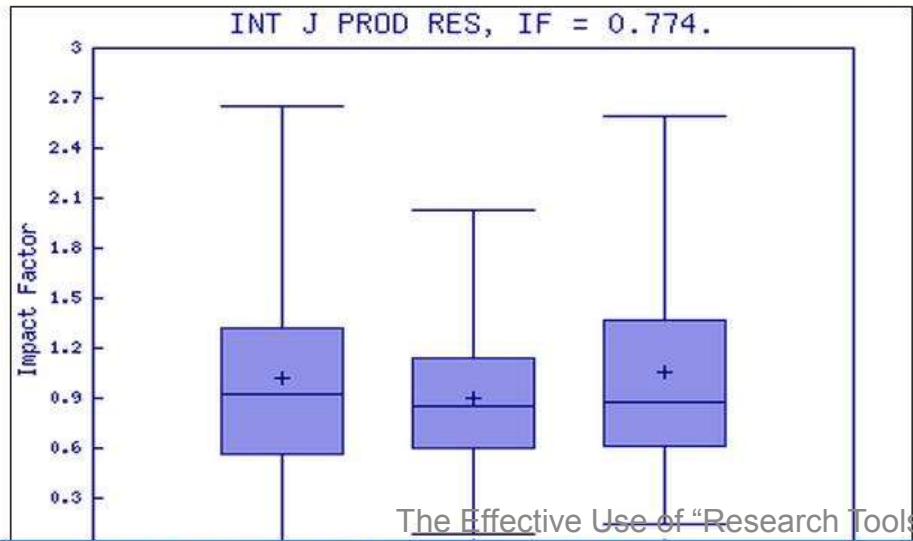
This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
ENGINEERING, INDUSTRIAL	33	21	Q3
ENGINEERING, MANUFACTURING	38	21	Q3
OPERATIONS RESEARCH & MANAGEMENT SCIENCE	64	40	Q3

Category Box Plot ⓘ

For 2008, the journal **INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH** has an Impact Factor of **0.774**.

This is a box plot of the subject category or categories to which the journal has been assigned. It provides information about the distribution of journals based on Impact Factor values. It shows median, 25th and 75th percentiles, and the extreme values of the distribution.



Key
ENGINEERING, INDUSTRIAL

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Journal Summary List [Journal Title Changes](#)

Journals from: subject categories ENGINEERING, INDUSTRIAL [VIEW CATEGORY SUMMARY LIST](#)

Sorted by: Journal Title

Journals 1 - 20 (of 33) Page 1 of 2

 **Impact Factor**

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data ⁱ						Eigenfactor TM Metrics ^j	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor TM Score	Article Influence TM Score
<input type="checkbox"/>	1	APPL ERGON	0003-6870	1719	1.250	1.419	0.489	88	8.2	0.00333	0.404
<input type="checkbox"/>	2	CIRP ANN-MANUF TECHN	0007-8506	3771	1.123	1.514	0.094	149	>10.0	0.00474	0.307
<input type="checkbox"/>	3	COMPUT IND ENG	0360-8352	2389	1.057	1.637	0.209	139	9.0	0.00438	0.437
<input type="checkbox"/>	4	COMPUT OPER RES	0305-0548	3389	1.366	1.789	0.318	261	6.1	0.01317	0.673
<input type="checkbox"/>	5	ERGONOMICS	0014-0139	4167	1.604	1.729	0.110	127	>10.0	0.00525	0.436
<input type="checkbox"/>	6	IEEE IND APPL MAG	1077-2618	484	0.529	0.698	0.043	46	7.0	0.00144	0.306
<input type="checkbox"/>	7	IEEE T ENG MANAGE	0018-9391	1507	1.156	2.153	0.152	46	8.2	0.00312	0.655
<input type="checkbox"/>	8	IEEE T IND INFORM	1551-3203	227	2.356	2.565	0.286	28	2.6	0.00069	0.364
<input type="checkbox"/>	9	IIE TRANS	0740-817X	2656	1.023	1.373	0.144	90	>10.0	0.00659	0.673
<input type="checkbox"/>	10	IND MANAGE DATA SYST	0263-5577	720	0.945	1.237	0.042	72	5.0	0.00179	0.228
<input type="checkbox"/>	11	IND ROBOT	0143-991X	245	0.404	0.471	0.073	55	5.6	0.00068	0.110
<input type="checkbox"/>	12	INT J IND ENG-THEORY	1072-4761	131	0.123	0.257			6.4	0.00046	0.087
<input type="checkbox"/>	13	INT J IND ERGONOM	0169-8141	1288	0.760	0.995	0.071	99	8.3	0.00230	0.245
<input type="checkbox"/>	14	INT J PROD ECON	0925-5273	4733	2.026	2.767	0.344	358	5.9	0.01131	0.612
<input type="checkbox"/>	15	INT J PROD RES	0020-7543	5900	0.774	1.380	0.132	325	9.0	0.01042	0.360
<input type="checkbox"/>	16	ISSUES SCI TECHNOL	0748-5492	229	0.825	0.510	0.086	35	6.8	0.00111	0.255
<input type="checkbox"/>	17	J CONSTR ENG M ASCE	0739-0364	1410	0.664	0.954	0.049	103	7.7	0.00292	0.234

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Journal Summary List [Journal Title Changes](#)

Journals from: subject categories ENGINEERING, INDUSTRIAL [VIEW CATEGORY SUMMARY LIST](#)

Sorted by:

Journals 1 - 20 (of 33) Page 1 of 2

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

Mark	Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data ⁱ⁾						Eigenfactor TM Metrics ^{j)}	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor TM Score	Article Influence TM Score
<input type="checkbox"/>	1	J PROD INNOVAT MANAG	0737-6782	1832	2.650	3.607	0.121	33	9.5	0.00285	0.953
<input type="checkbox"/>	2	IEEE T IND INFORM	1551-3203	227	2.356	2.565	0.286	28	2.6	0.00069	0.364
<input type="checkbox"/>	3	INT J PROD ECON	0925-5273	4733	2.026	2.767	0.344	358	5.9	0.01131	0.612
<input type="checkbox"/>	4	TECHNOVATION	0166-4972	1477	1.907	1.871	0.183	71	4.7	0.00327	0.312
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<input type="checkbox"/>	8	COMPUT OPER RES	0305-0548	3389	1.366	1.789	0.318	261	6.1	0.01317	0.673
<input type="checkbox"/>	9	RES ENG DES	0934-9839	559	1.320	2.056	0.133	15	8.1	0.00091	0.569
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<input type="checkbox"/>	11	IEEE T ENG MANAGE	0018-9391	1507	1.156	2.153	0.152	46	8.2	0.00312	0.655
<input type="checkbox"/>	12	J MATER PROCESS TECH	0924-0136	11836	1.143	1.402	0.154	927	6.0	0.03738	0.412
<input type="checkbox"/>	13	CIRP ANN-MANUF TECHN	0007-8506	3771	1.123	1.514	0.094	149	>10.0	0.00474	0.307
<input type="checkbox"/>	14	COMPUT IND ENG	0360-8352	2389	1.057	1.637	0.209	139	9.0	0.00438	0.437
<input type="checkbox"/>	15	IIE TRANS	0740-817X	2656	1.023	1.373	0.144	90	>10.0	0.00659	0.673
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<input type="checkbox"/>	17	J ENG TECHNOL MANAGE	0923-4748	149	0.923	2.217	0.053	19	7.1	0.00082	0.447



Keeping up-to-date (Alert system)

Keeping up-to-date

Alert services are an effective means of keeping track of the latest research.

What is an alert service?



- Many journal databases and book publishers offer free alert services. These are an effective means of keeping track of the latest research.
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 - a TOC (Table of Contents) alert. Such an alert notifies you when a new issue of a journal is published, and provides you with the issue's table of contents.
 - a citation alert. This advises you when a new article cites a particular work.
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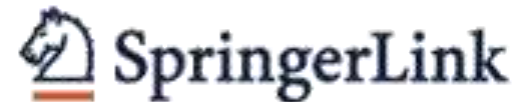
- Enter the topic you wish to monitor.
- Search terms:
- Type:
- How often:
- Email length:
- Your email:



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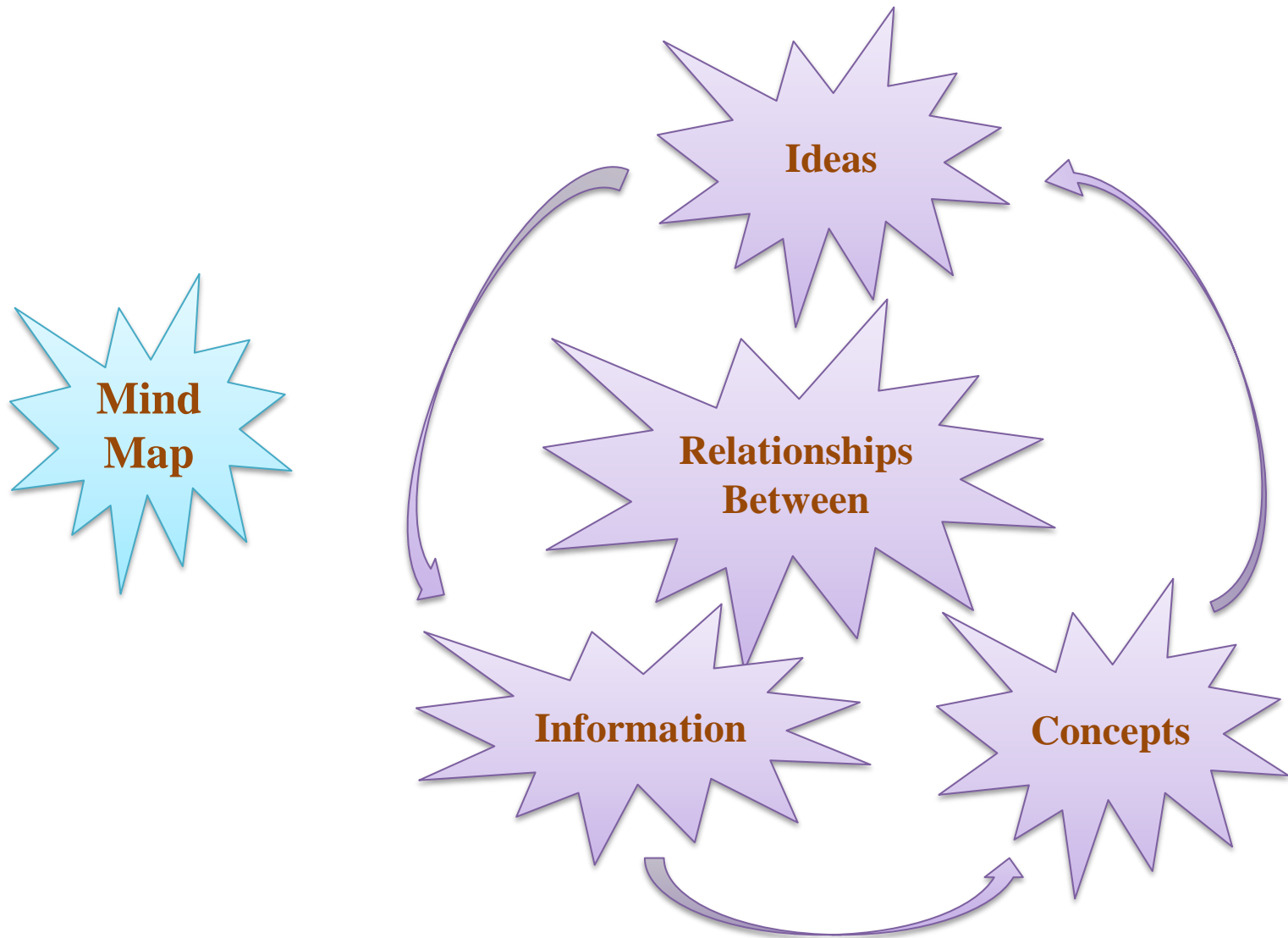


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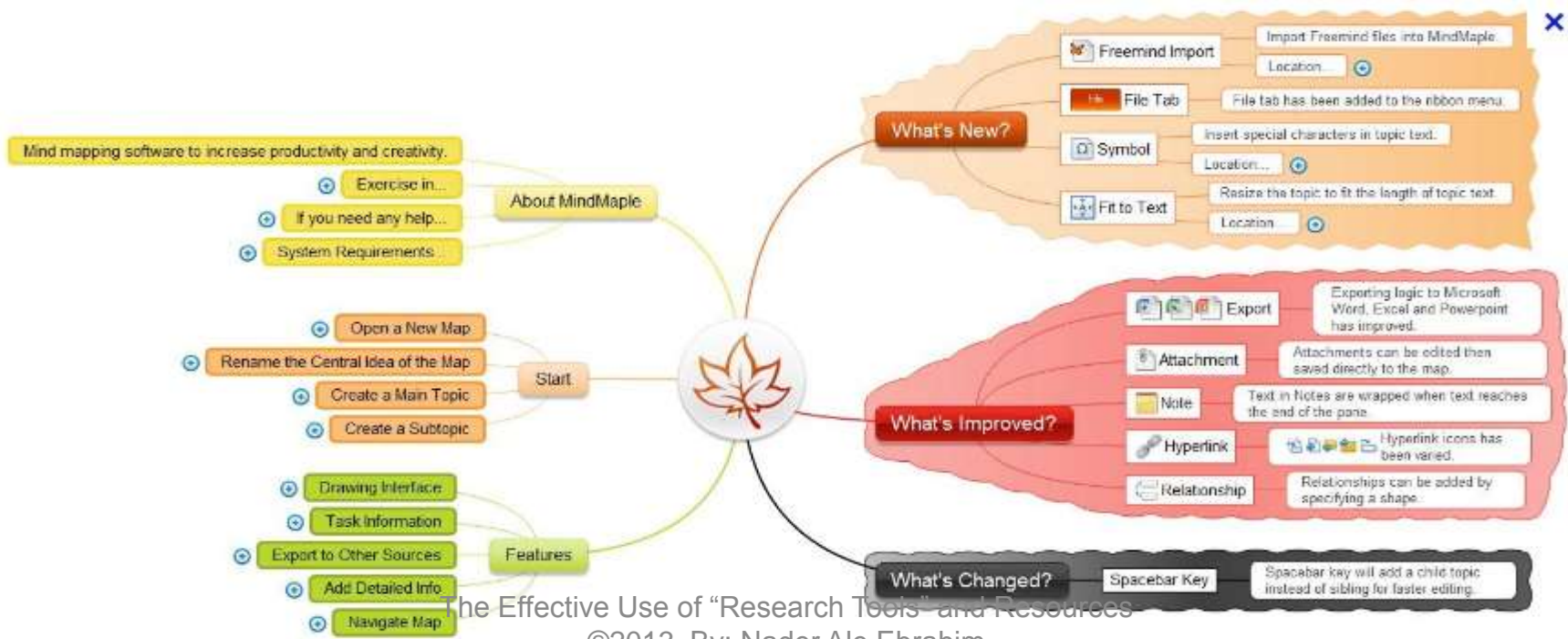
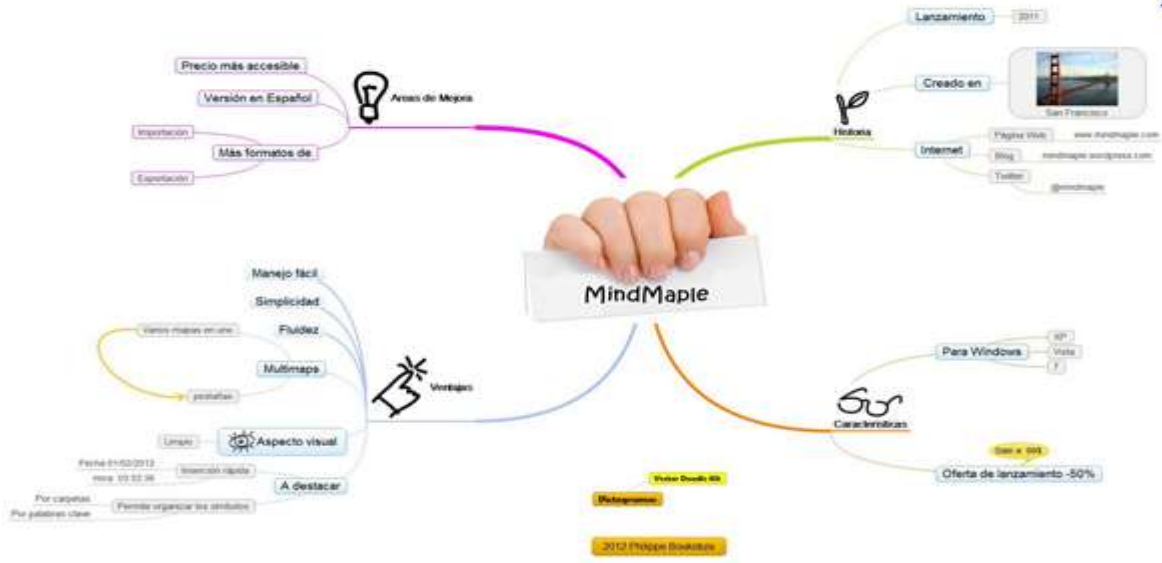


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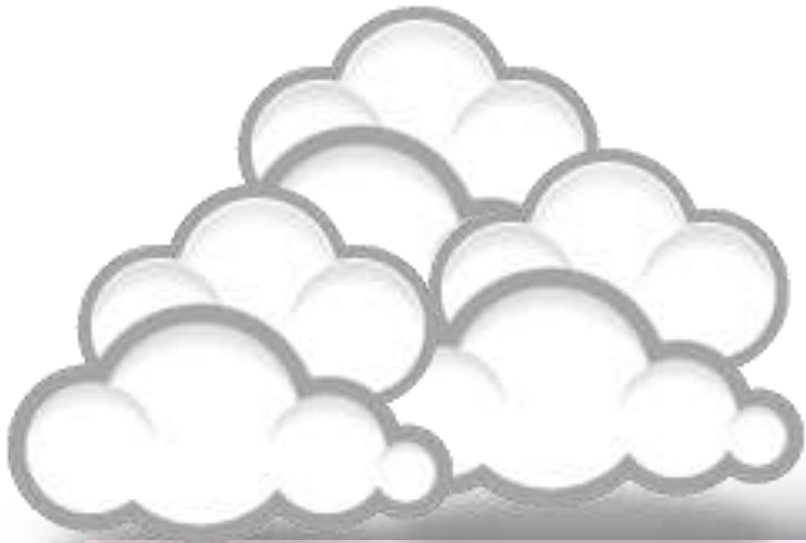
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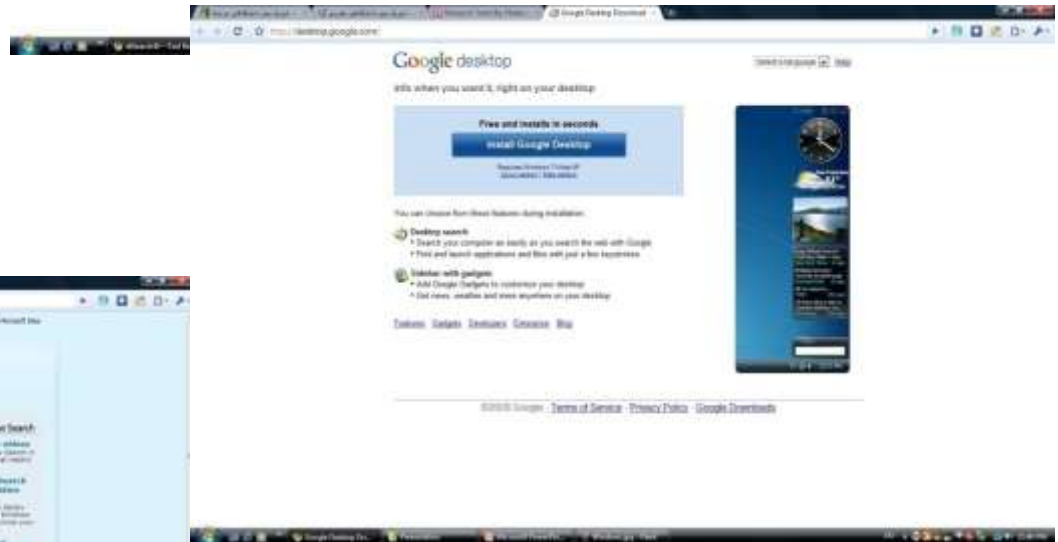
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stances and offers related research propositions. The paper also discusses the role of the Internet in new product performance. Finally, the paper concludes with managerial and research implications.

1. New product development process and the role of the Internet

Past research has consistently shown that a high-quality new product development process is one of the most critical success factors in new product development [8,10–12]. As a result, it has offered numerous processes that firms can use when developing their new products. Cooper [13] defines a new product development process as a formal blueprint, roadmap, template or thought process for driving a new product project from the idea to market launch and beyond. The process involves predetermined set of stages and each stage consists of a set of prescribed, cross-functional and parallel activities. Each stage is preceded by a gate, controlling the flow of the process and providing a decision checkpoint in the process. Because of the stages and the

with the first and second-generation processes, the third-generation process emphasizes efficiency and effectiveness in the new product development process through four fundamental areas. First, it is fluid, which means that there are overlaps in stages for greater speed. Second, it involves fuzzy gates, reducing the rigidity of criteria used in the gates and allowing conditional or situational considerations of the activities. Third, it is more focused in terms of prioritizing projects. Finally, it is flexible, suggesting that each new product is unique and has its own unique development process [13].

There are also compelling issues that indicate that new product development process may not be uniform across firms and products. Takeuchi and Nanoka [14] argue that today's rapidly changing and competitive market conditions require firms to adopt a flexible and fast new product development process and that a holistic "rugby" style new product development might be needed to respond to the conditions. With this approach, new product teams move through all phases of the development together, passing the ball back and forth as they develop new products. Based on a case study, the authors concluded that it is possible to

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[Page 1 Paragraph 27]

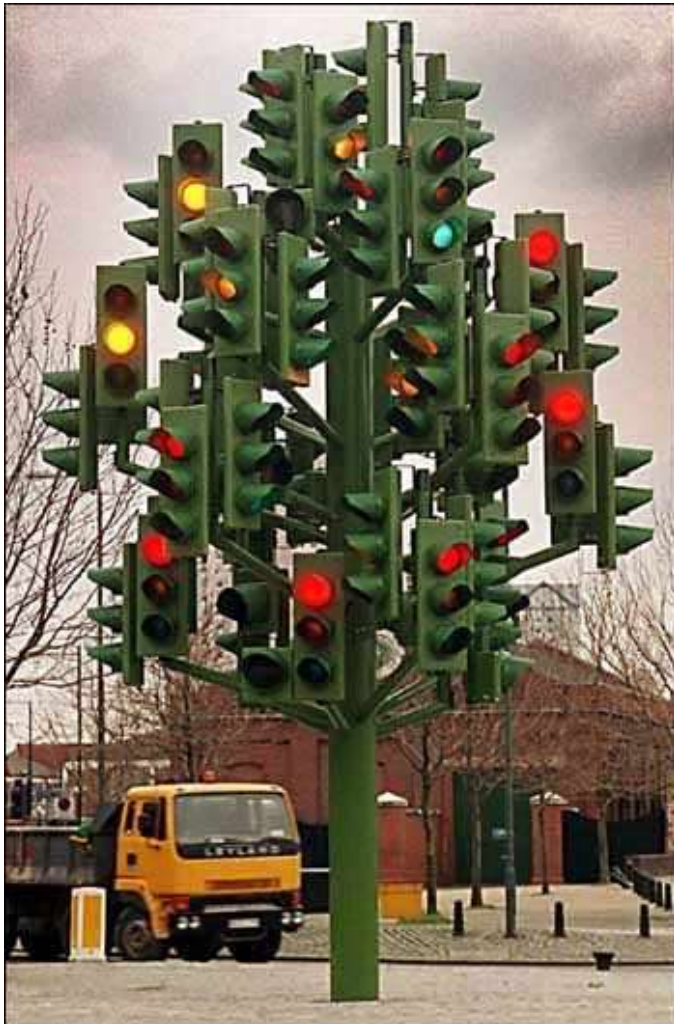
a standard form on which facts, comments

and attitudes can be recorded, and facilitate data processing.

This new edition of **Questionnaire Design** explains the role of questionnaires in market research, and looks at different types of questionnaire and when and how they



The Effective Use of “Research Tools” and Resources
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Thank you!

Nader Ale Ebrahim, PhD

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