The *HistCite* System for Mapping and Bibliometric Analysis of the Output of Searches Using the *ISI Web of Knowledge*

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We have previously reported on the development of the *HistCite*™ software for use in algorithmic historiography.[1,2] The initial system has gone through a number of changes. In this poster demonstration we will illustrate the most recent version and emphasize its mapping and bibliometrics features.

The *HistCite* system was developed to help users evaluate the output of topical and citation-based searches. Once "marked lists" are created on the *Web of Knowledge*,℠ text files (.txt) are generated similar to those used for exporting records to citation managers such as *Reference Manager*. By executing the *HistCite* software, a series of tables and graphics is created. The tables include chronological sorts as well as frequency rankings by author and journal. In addition, files can be sorted by local or global citation frequencies. More recent features include vocabulary analyses which display the frequency of singleton terms as well as title word pairs.

Once a list of articles is collected, the *HistCite* system permits the user to customize selection of individual papers (nodes) to be included in the graphical displays called historiographs. Ordinarily, default maps are based on selecting the top 15 to 25 papers in the local collection, which are, by definition, those with the highest citation impact in the topic, either by local or global citation scores. Time frequency histograms may also be generated. In addition to the selective mapping capability, there is a searching and marking facility (by author, title or abstract word, journal, citing or cited node, publication year, etc.), which permits creation of subsets of the collection for separate analysis, e.g., for evaluating different time periods, or by deletion of individual nodes or groups of nodes. New bibliometric features include the ability to generate frequency distributions, percentiles of citation scores, and other quantitative parameters such as the number of references, number of authors, publication years of nodes, and "outer references". The latter can now be sorted by author or journal which allows better characterization of the bibliography under analysis and supplements the editing feature which is used to correct variations and errors in cited references.

The poster will include examples from historical (Watson and Crick[2]) and topical (microarrays[3]) perspectives. Several dozen HTML files can be accessed to review different applications of the *HistCite* software at:
http://garfield.library.upenn.edu/histcomp/

REFERENCES

[1] Garfield E, Pudovkin AI, & Istomin VS. (2002) "Algorithmic Citation-Linked Historiography -- Mapping the Literature of Science," Presentation at *ASIST 2002: Information, Connections and Community*, 65th Annual Meeting of the American Society for Information Science & Technology (ASIS&T). Philadelphia, PA. November 18-21, 2002. Abridged version in Elaine G. Toms (Ed.) *Proceedings of the 65th Annual Meeting of the American Society for Information Science & Technology (ASIS&T)*, Vol: 39, pp. 14-24.
http://garfield.library.upenn.edu/papers/asis2002/asis2002presentation.html

[2] Garfield E, Pudovkin AI, & Istomin VI. (December 2003). "Mapping the Output of Topical Searches in the *Web of Knowledge* and the case of Watson-Crick," *Information Technology and Libraries*; 22 (4),183-187
http://garfield.library.upenn.edu/papers/casewatsoncrick2003.pdf

[3] Garfield, E., & Paris, S. (August 25, 2003). "The Microarray Family Tree," The Scientist 16(20), 29.
http://www.the-scientist.com/yr2003/aug/research_030825.html

Click here for Poster Session...

Historiograph *HistCite* Guide

HistCite is a system designed to help selectively identify the significant (most cited) papers retrieved in topical searches of the Web of Science (SCI, SSCI and/or AHCI). Once a marked list of papers has been created, the resulting Export file is processed by HistCite to create tables ordered by author, year, or citation frequency as well as historiographs which include a small percentile of the most-cited papers and their citation links.

The COLORED boxes are components of the Historiograph Compliation. Clicking on a box will describe the specific component in more detail.

For more information on the HistCiteTM software, contact Dr. Eugene Garfield at Garfield@codex.cis.upenn.edu

Missing Links? Citation Matrix Graphs Glossary HistCite Guide About

Wed Jun 16 15:23:55 2004

Topic Search: Peer Review

Nodes: 3173

Authors: 5484, Journals: 1040, Outer References: 34805

Collection span: 1969 - 2004

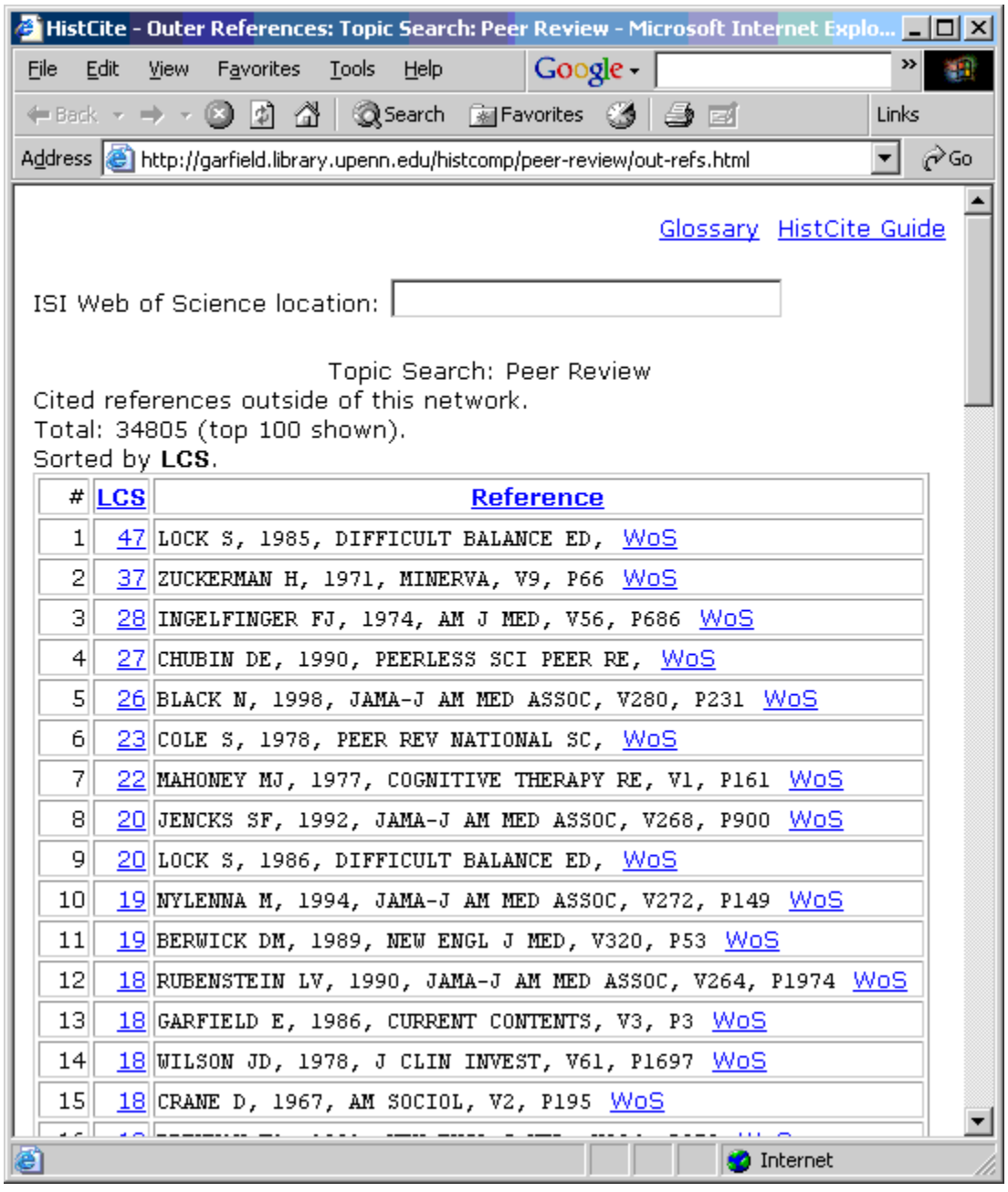
View: Overview. Sorted by **year, source, volume, issue, page**.

Page **1**: 1 2 3 4 5 6 7 8 9 10 11

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0	0	1 1969 FDA PAPERS 3(9):4-& HAMPSHIR.GD *NAS-NRC DRUG EFFICACY STUDY - PEER REVIEW*	0	1
2	0	17	2 1969 JOURNAL OF THE AMERICAN DENTAL ASSOCIATION 79(6):1376-& SCHONFEL.HK *PEER REVIEW OF QUALITY OF DENTAL CARE*	0	8
3	0	2	3 1970 CALIFORNIA MEDICINE 113(2):80-& SCHAFFAR.RW; PARKE HJ *UTILIZATION AND PEER REVIEW - MEDICINES PRIVILEGE AND*	0	1

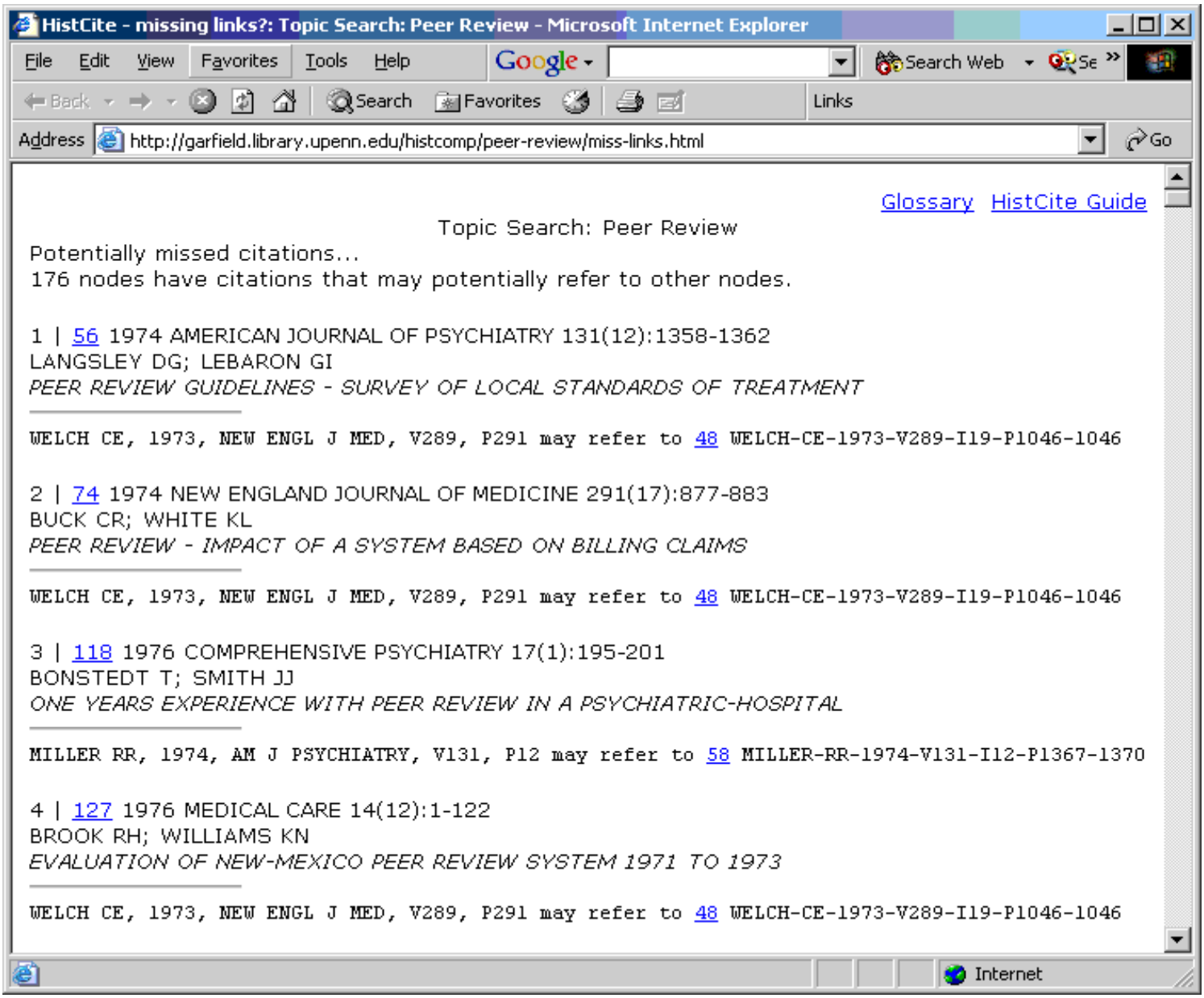
OUTER REFERENCES or OUTER NODES

The 'Outer References' (or 'Outer Nodes' on earlier compilations) identifies references from papers in the collection to papers or books outside the collection. SEE IMAGE BELOW. The number to the left (LCS) shows how often this specific reference is cited. The example shows that 37 papers cited Zuckermans's 1971 article in Minerva Vol9 p66. Clicking on the number 37 brings up the list of 37 Citing Papers. The *WoS* Hot Link on the right of each reference will take you directly to the Cited Reference section of ISI's Web of Science, but in order to do so you must be a subscriber and insert the access URL in the *Web of Science* Location box.



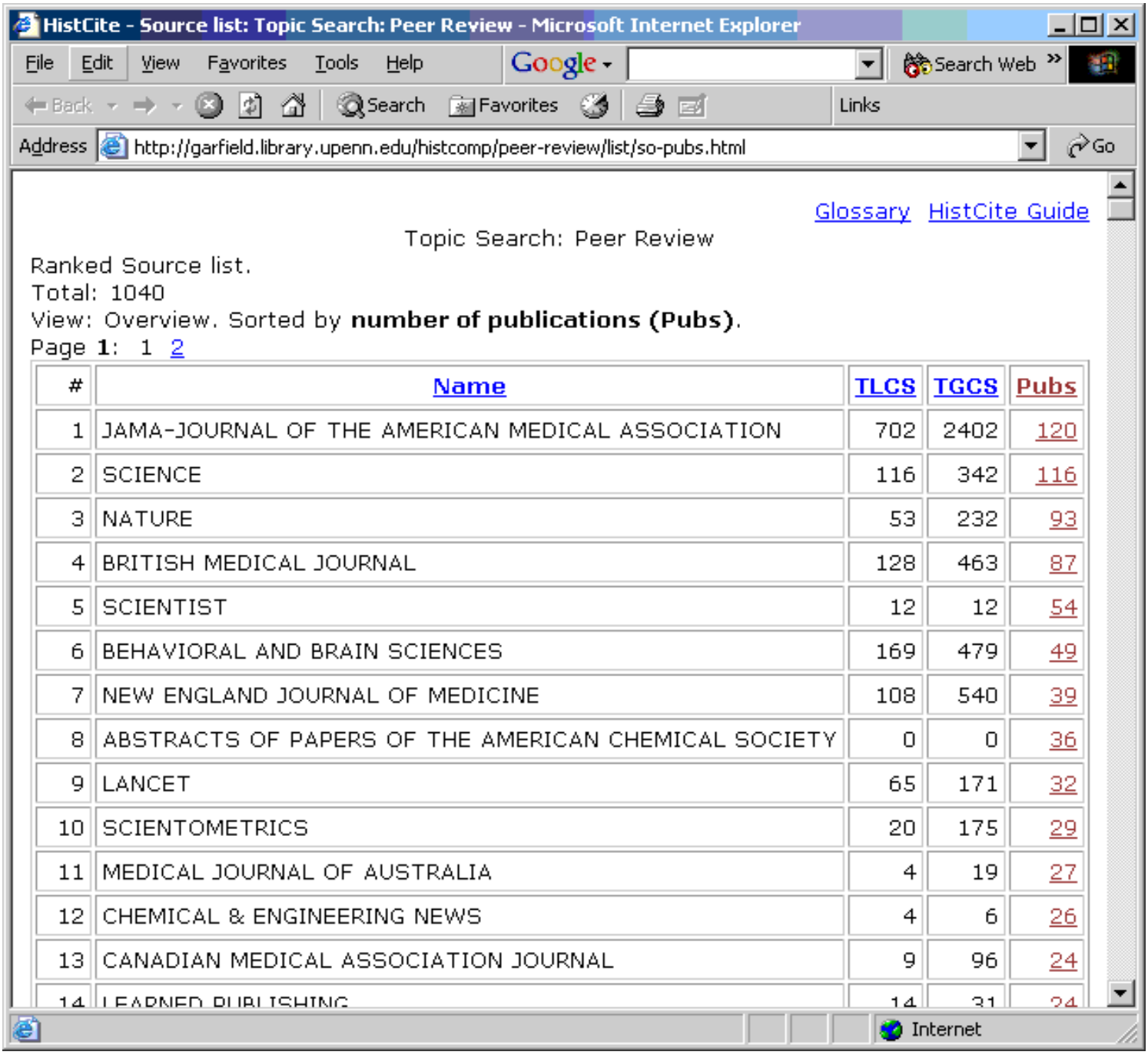
MISSING LINKS

MISSING LINKS identified possibly erroneous or variant missed citations that MAY refer to papers in the collection. This expert system makes a best guess as to which paper was meant by the author. In the example below node #1, Langsley's article "Peer Review Guidelines...." cites Welch CE, New England J Med, V289, P291 which is not found in the main collection. HistCite did find, however, a 1973 paper by Welch CE that almost matches the parameters of the citation. You can click on node #48 to investigate further. If you think this reference does refer to the paper identified here, you must edit the reference to create a match.



JOURNAL LIST

JOURNAL LIST/SOURCE LIST shows a ranked list of all of the journals that appear in the Main Bibliography. The example shows that the topic was covered in 1040 different publications. Below the Total is the list of journals in descending order by frequency of articles in collection. By clicking on the number of articles in the collection, you can see a list of those articles. It is possible to sort the sources according to TGCS (Total Global Citation Score) or TLCS (Total Local Citation Score) by clicking on the appropriate linked header.



#	Name	TLCS	TGCS	Pubs
1	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	702	2402	120
2	SCIENCE	116	342	116
3	NATURE	53	232	93
4	BRITISH MEDICAL JOURNAL	128	463	87
5	SCIENTIST	12	12	54
6	BEHAVIORAL AND BRAIN SCIENCES	169	479	49
7	NEW ENGLAND JOURNAL OF MEDICINE	108	540	39
8	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	0	0	36
9	LANCET	65	171	32
10	SCIENTOMETRICS	20	175	29
11	MEDICAL JOURNAL OF AUSTRALIA	4	19	27
12	CHEMICAL & ENGINEERING NEWS	4	6	26
13	CANADIAN MEDICAL ASSOCIATION JOURNAL	9	96	24
14	LEARNED PUBLISHING	14	31	24

ALL-AUTHOR LIST

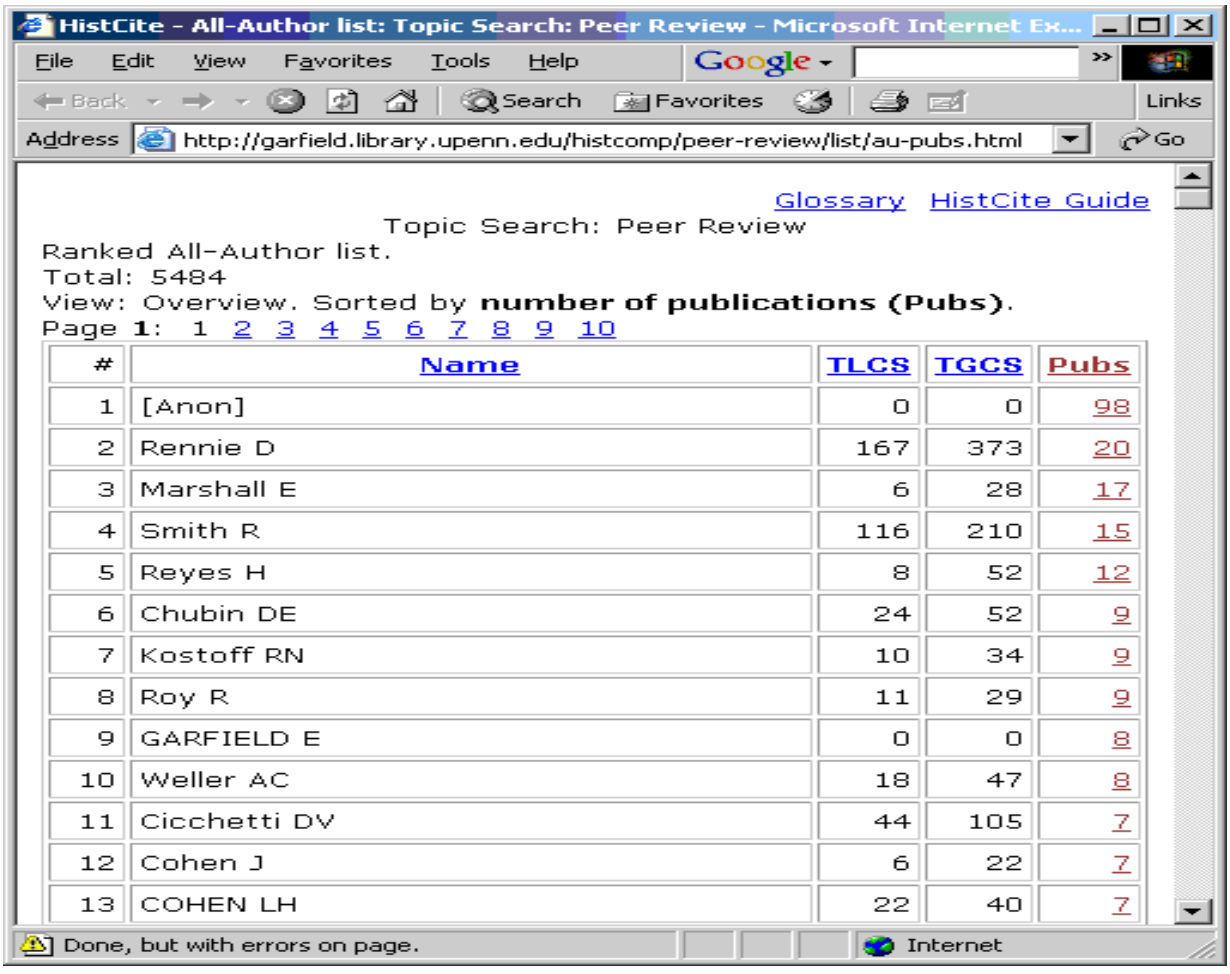
ALL-AUTHOR LIST shows a ranked list of all the authors that appear in the collection. The example shows that there were 1836 different authors in the bibliography. Below the Total the hot links enable you to sort as follows:

Name - Sorts the list Alphabetically by last name.

TGCS (Total Global Citation Score) - How many times the author's papers included in this collection have been cited. This score is calculated from the Times Cited score retrieved from the Web of Science. Also see GCS

TLCS (Total Local Citation Score) - How many times the author's papers included in this collection have been cited by other papers also in the collection. Also see LCS

Pubs - The number of articles by this author in the collections. The second author "Rennie D" has published 20 articles in the bibliography. Clicking on the hot linked number under Pubs, in this case 20, shows a list of the 20 articles by Rennie D.



#	Name	TLCS	TGCS	Pubs
1	[Anon]	0	0	98
2	Rennie D	167	373	20
3	Marshall E	6	28	17
4	Smith R	116	210	15
5	Reyes H	8	52	12
6	Chubin DE	24	52	9
7	Kostoff RN	10	34	9
8	Roy R	11	29	9
9	GARFIELD E	0	0	8
10	Weller AC	18	47	8
11	Cicchetti DV	44	105	7
12	Cohen J	6	22	7
13	COHEN LH	22	40	7

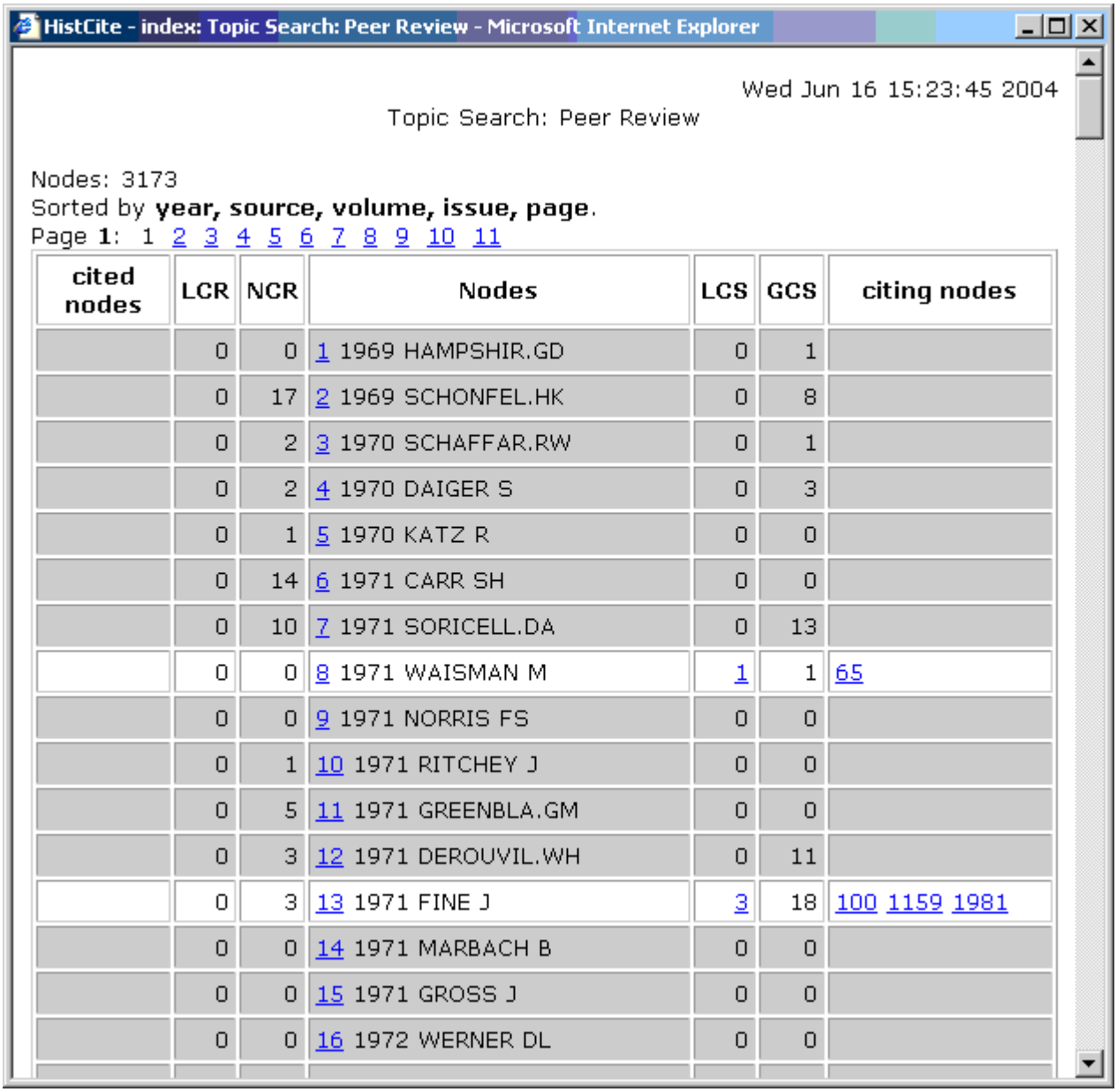
CITATION MATRIX

CITATION MATRIX - For use in creating co-citation and other visual maps or flow charts of the collection.

The "Nodes" column is the master column; all information is in reference to the paper identified here. Click on the node number to see the full bibliographic information of the node.

The "Cited Nodes" column lists the unique nodes numbers (as links) of the papers that the paper under the "Nodes" column cites.

The "Citing Nodes" column lists the unique nodes numbers (as links) of the papers that the paper under the "Nodes" column is cited by.



HistCite - index: Topic Search: Peer Review - Microsoft Internet Explorer

Wed Jun 16 15:23:45 2004

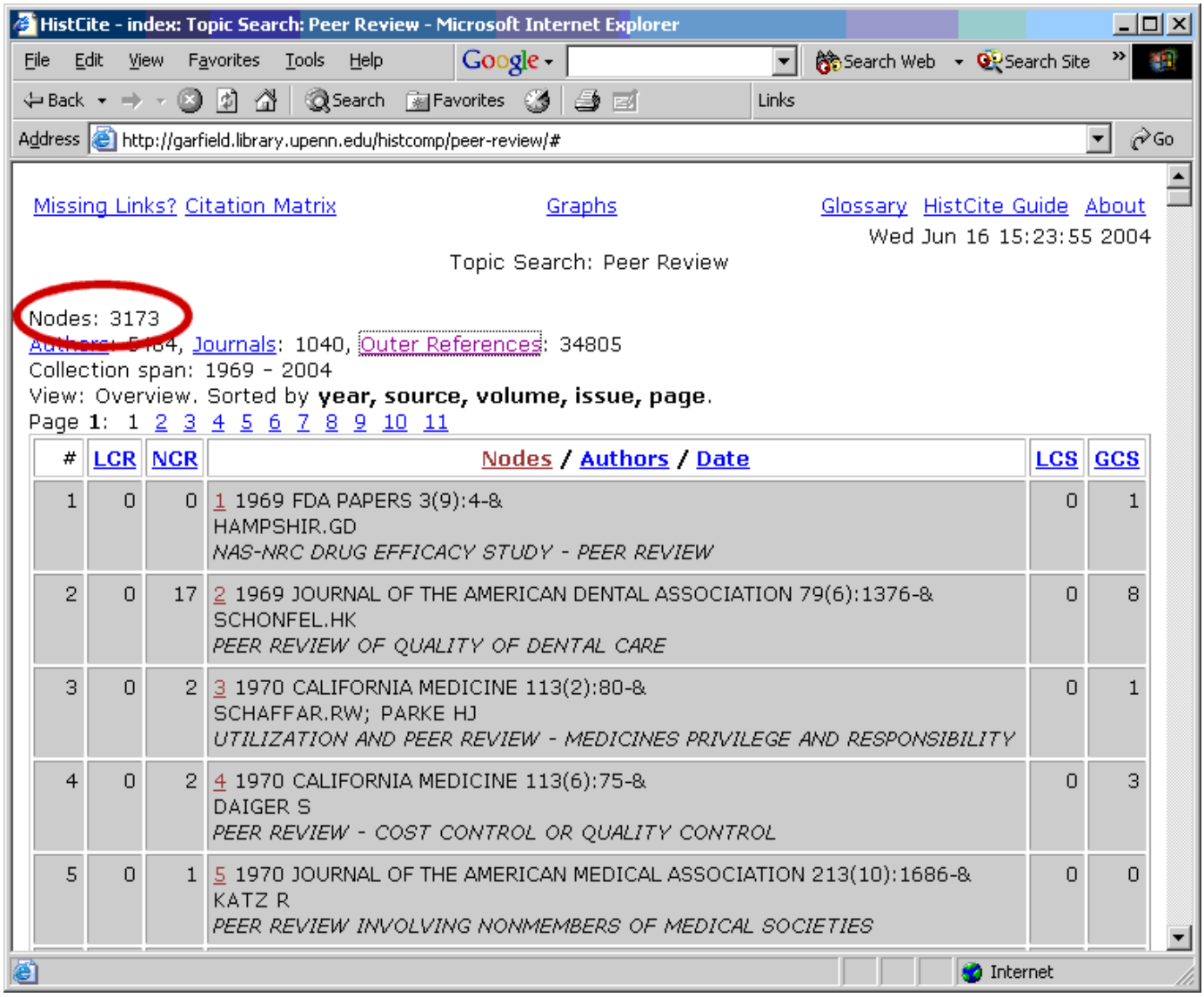
Topic Search: Peer Review

Nodes: 3173
Sorted by **year, source, volume, issue, page**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11

cited nodes	LCR	NCR	Nodes	LCS	GCS	citing nodes
	0	0	1 1969 HAMPSHIR.GD	0	1	
	0	17	2 1969 SCHONFEL.HK	0	8	
	0	2	3 1970 SCHAFFAR.RW	0	1	
	0	2	4 1970 DAIGER S	0	3	
	0	1	5 1970 KATZ R	0	0	
	0	14	6 1971 CARR SH	0	0	
	0	10	7 1971 SORICELL.DA	0	13	
	0	0	8 1971 WAISMAN M	1	1	65
	0	0	9 1971 NORRIS FS	0	0	
	0	1	10 1971 RITCHEY J	0	0	
	0	5	11 1971 GREENBLA.GM	0	0	
	0	3	12 1971 DEROUVIL.WH	0	11	
	0	3	13 1971 FINE J	3	18	100 1159 1981
	0	0	14 1971 MARBACH B	0	0	
	0	0	15 1971 GROSS J	0	0	
	0	0	16 1972 WERNER DL	0	0	

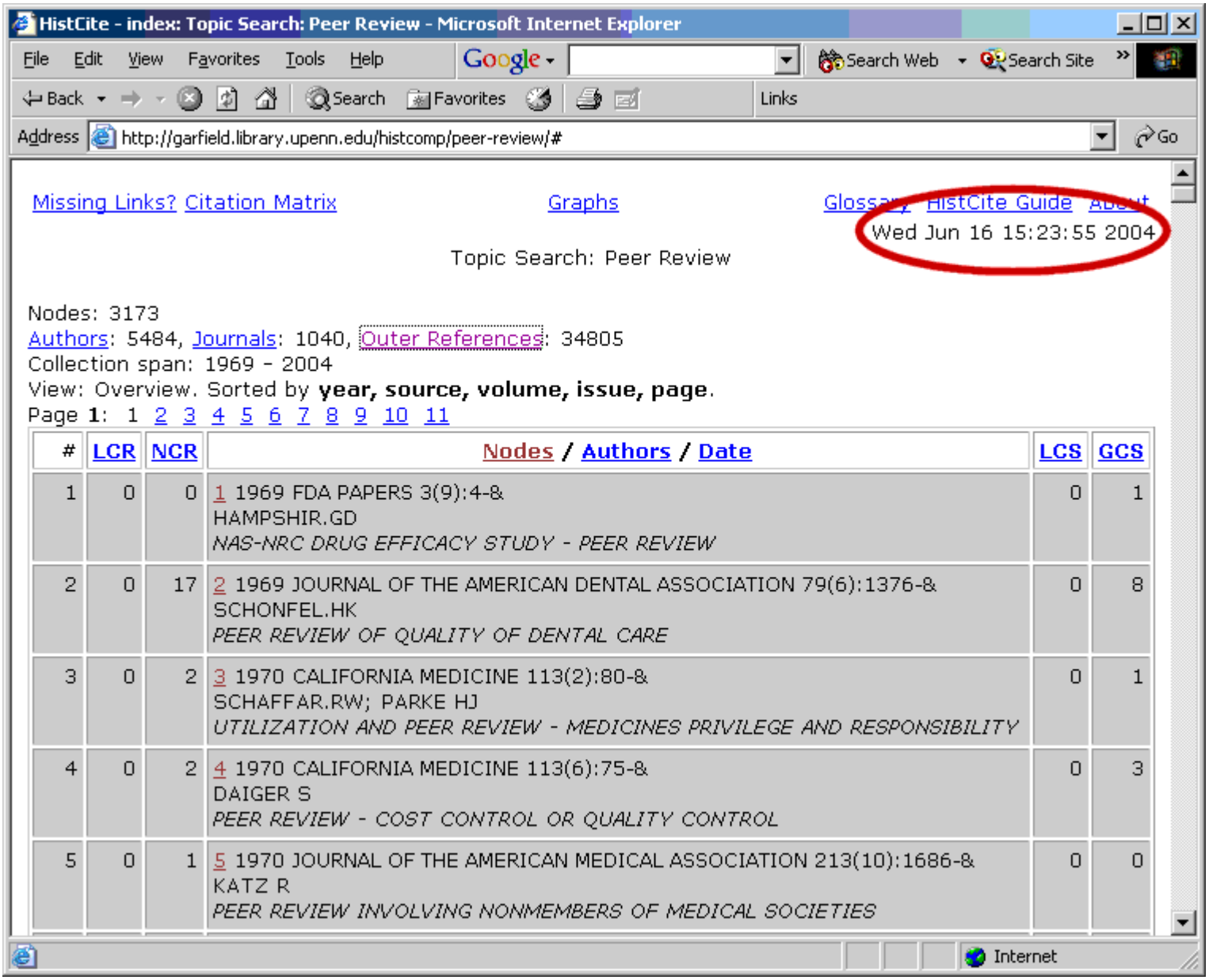
NODE COUNT

NODE COUNT gives the total number of papers (or nodes) that are in the collection.



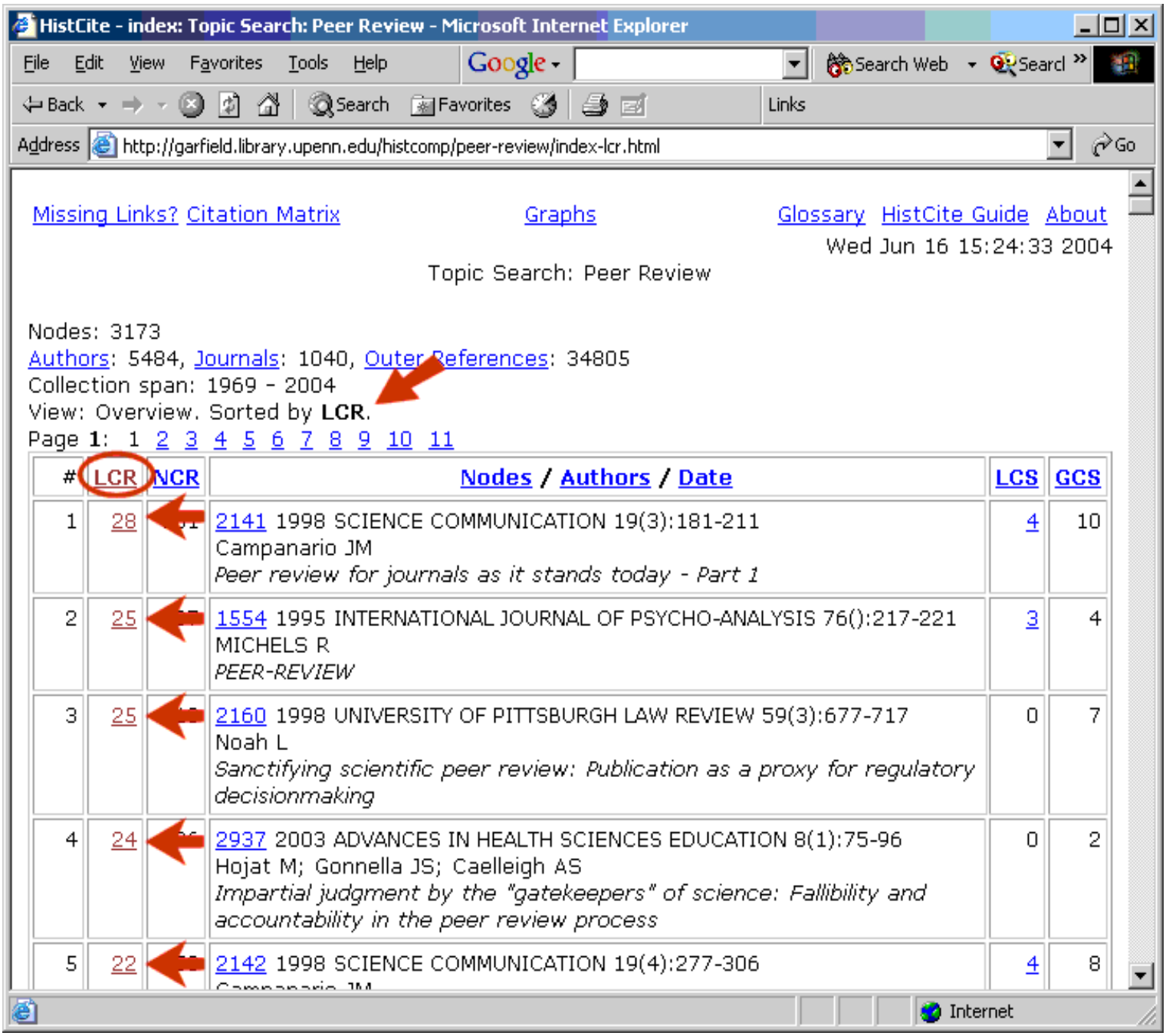
DATE PROCESSED

DATE PROCESSED gives the date that the Historiograph was compiled.



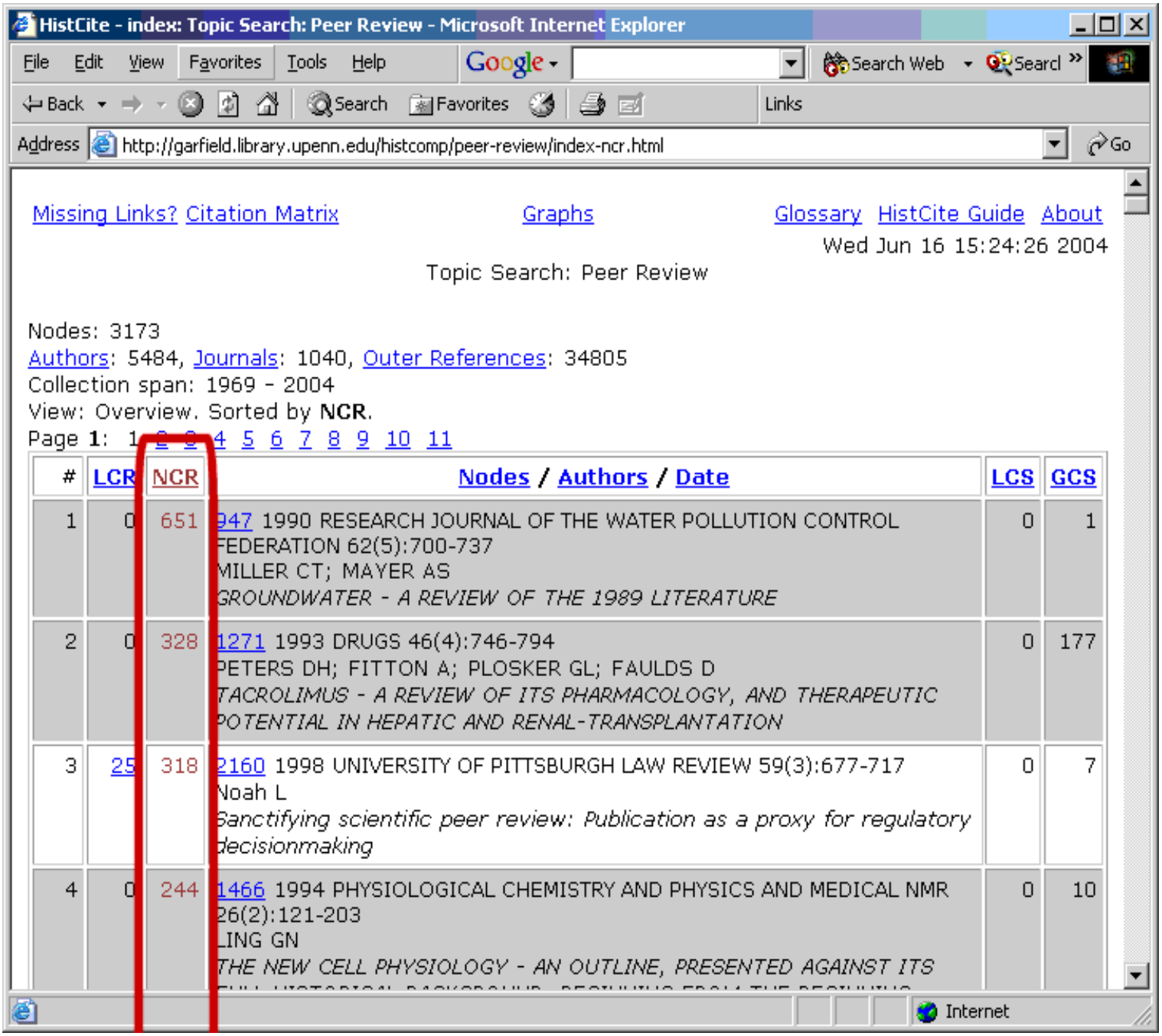
LOCAL CITED REFERENCES

LOCAL CITED REFERENCES is the number of references citing local papers. By clicking on "LCR", you can sort the collection by this score. By clicking on the LCR number, you can see a list of the papers cited.



NCR - NUMBER OF CITED REFERENCES

NUMBER OF CITED REFERENCES shows the number of citing references for a particular node.



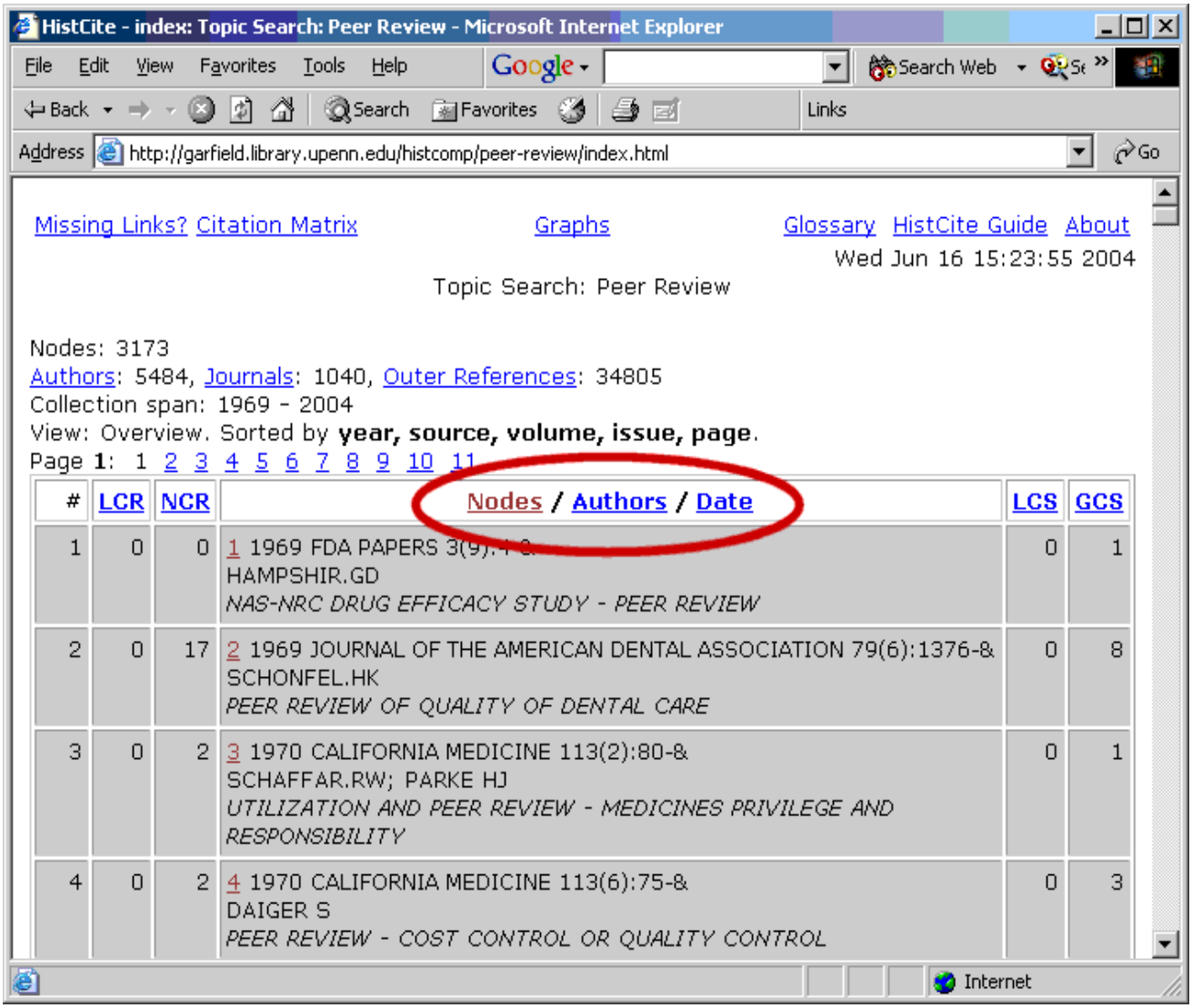
SORT OPTIONS

These are additional sort options.

Nodes sorts the main bibliography in ascending order by **year, journal, volume, page** on the node. This is the default order.

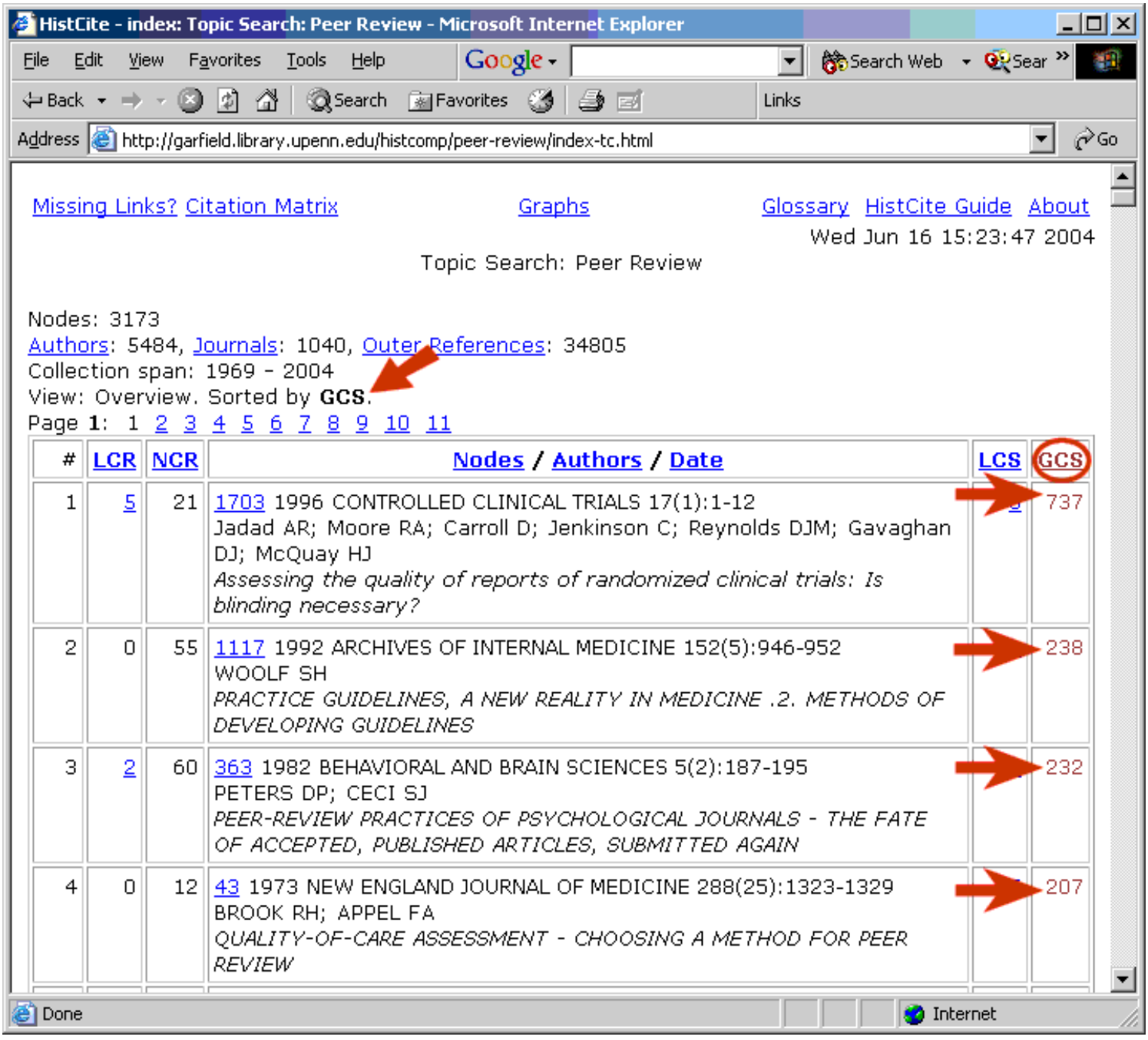
Authors sorts the collection by last name of the first author.

Date sorts the collection by the date of publication. All nodes may not have the complete date such as month and day, but all should have the year.



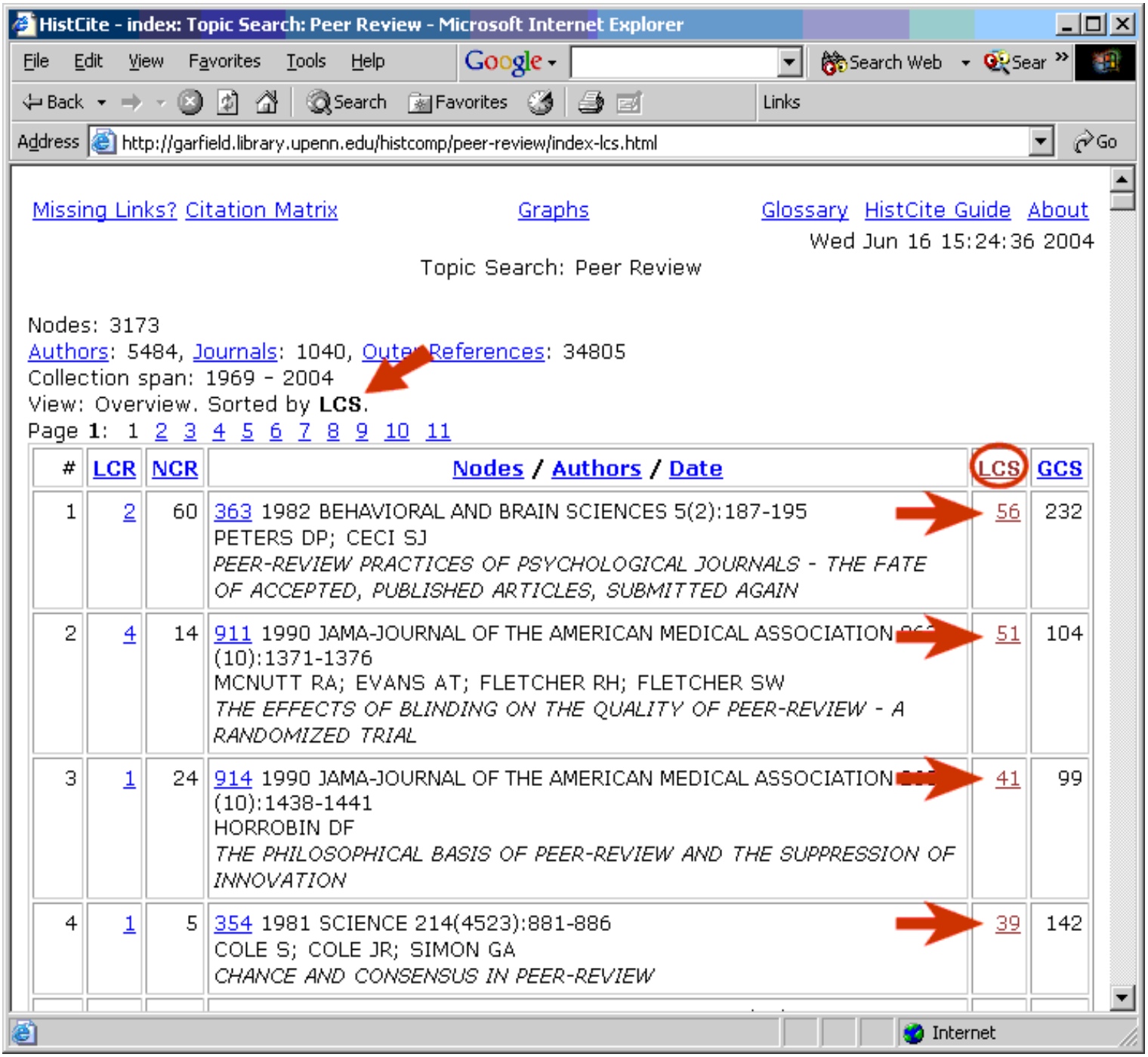
GLOBAL CITATION SCORE

GLOBAL CITATION SCORE provides the Citation Frequency based on the full Web of Science count at the time the data was downloaded. By clicking on "GCS" you can sort the collection by this score. To see the citing papers, look up the paper the Web of Science.



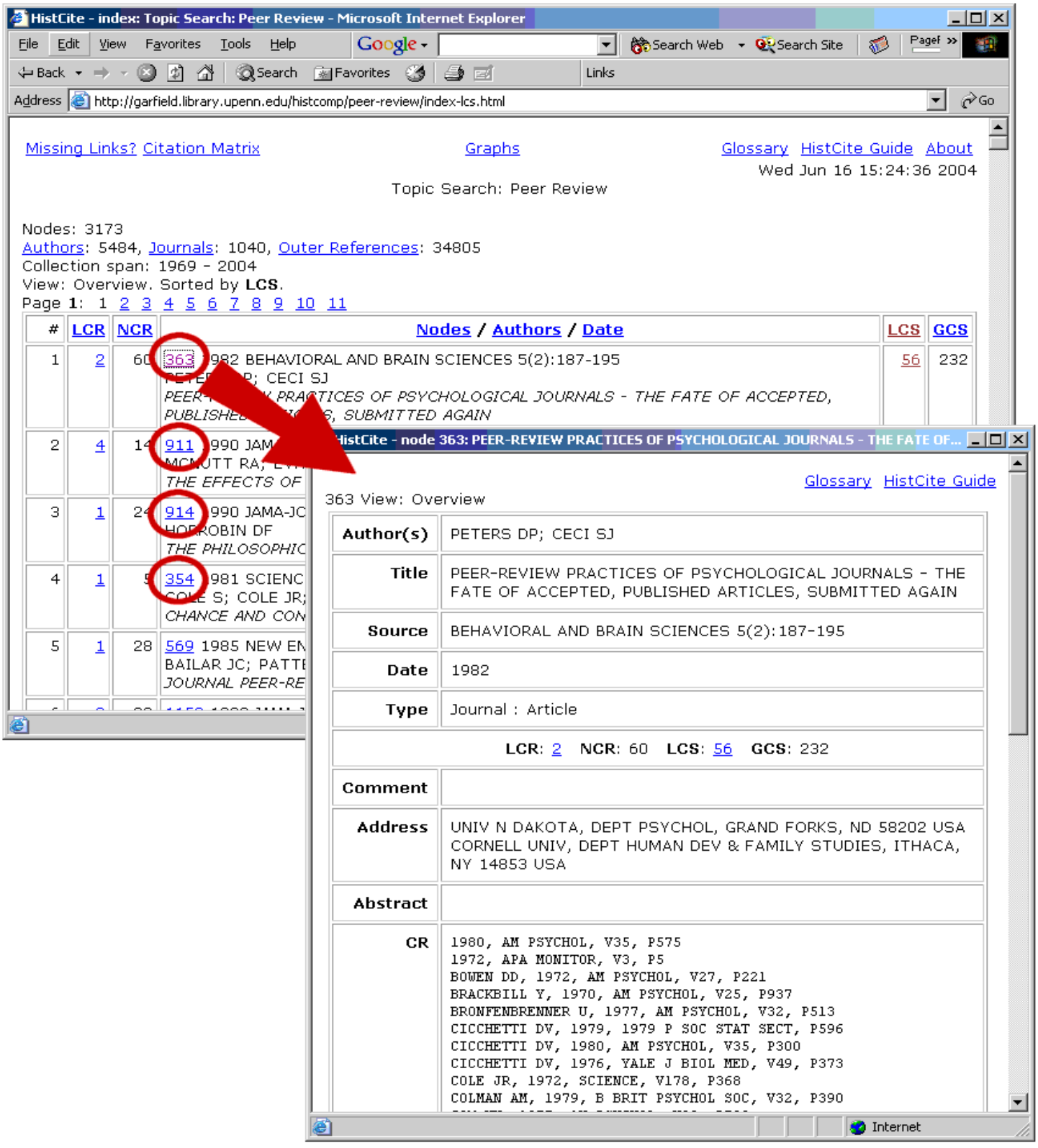
LOCAL CITATION SCORE

LOCAL CITATION SCORE is the number of times a paper is cited by other papers in the local collection. By clicking on "LCS" you can sort the collection by it. By clicking on the LCS number for a particular node (or paper), you can see a list of of the papers citing this node.



NODE NUMBER

NODE NUMBER identifies the specific article in the collection.. Clicking on this number will display the detailed source record for the article including Abstract & Author's Address when available as well as the list of cited references in that article.

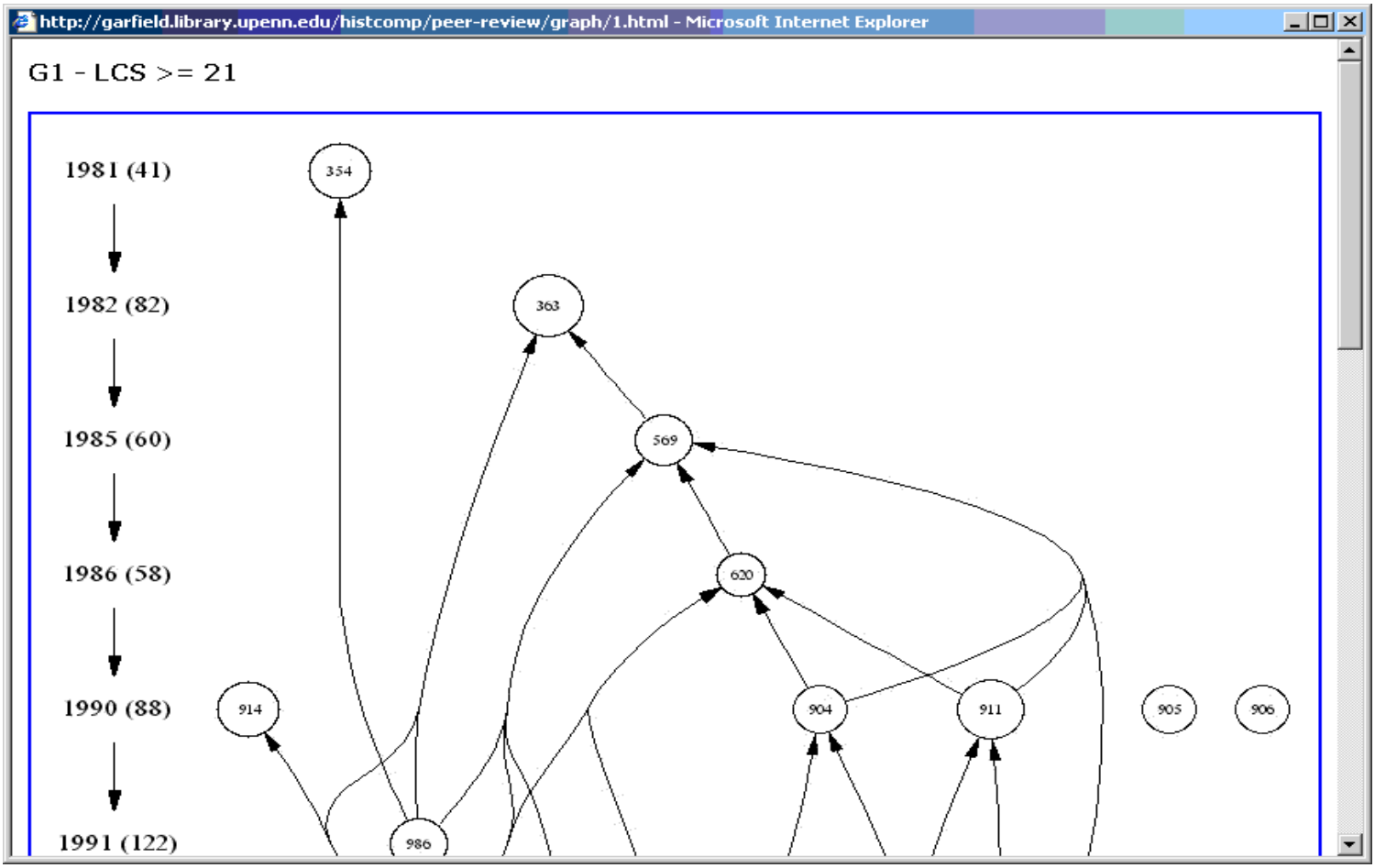


GRAPHS

Two types of graphs can be created, GCS and LCS. The type of the graph determines the criteria by which the graph is created. The example below is the LCS type graph and the discussion that follows will be in reference to this.

The circles represent papers. The size of the circle is relative to that paper's LCS score (or by GCS score if a GCS graph). The number inside the circle is the node number. Clicking on the circle brings up the detailed source record of that paper. Leaving the mouse cursor over the circle shows the abbreviated source data identifying that paper. Normally located below the map is the list of papers included in the graph. The "LCS >= 21" indicates that this graph contains all those nodes (papers) which have an LCS of 21 or higher. See LCS for more info. The number in parenthesis beside the year indicates the number of nodes in the main bibliography that were published in that year. An arrow pointing from one node to the next, usually to an older paper, indicates the citational relationship between papers.

The program for generating the HistCite(tm) Historiographs is a customized modification of the AT&T Labs GraphViz graph drawing open source software.

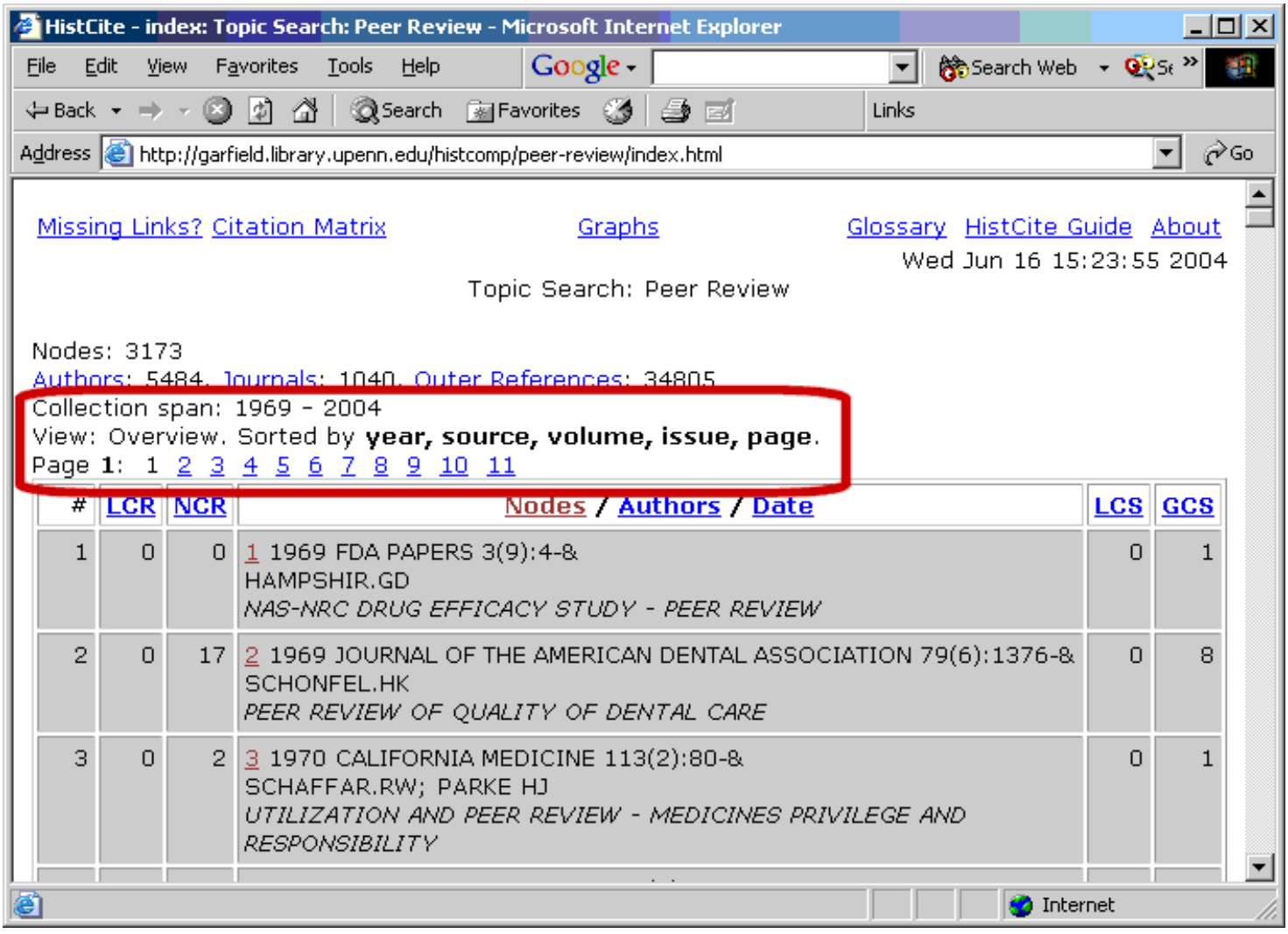


OTHER INFORMATION

Collection span lists the years that the collection spans.

View list the type of view the HistCite is displayed in. There are two possible views, "overview" and "bibliometric." In general the bibliometric view offers more statistical data.

Sorted by displays the current sort of the main collection. By clicking on any of the headers in the main table (GCS, LCS, etc), HistCite will resort the collection according to that criteria.



JASIST
HISTCITE COLLECTION

A search of the *Web of Science* retrieved 4,194 papers published in *American Documentation*, the *Journal of the American Society for Information Science*, and the *Journal of the American Society for Information Science and Technology* from 1956 to present. The analysis shows that within *JASIST* itself, the most cited paper (LCS) is the 1975 paper by Tefko Saracevic. It was cited by 63 papers in *JASIST* and 213 times globally, that is within the entire *Web of Science* database. In contrast, when the *HistCite* file was sorted by Global Citation Score (GCS), the paper by Deerwester et al moves to the top of the list.

The 1976 paper by Robertson is the second most cited paper both by GCS and LCS.

The third most cited paper is by Henry Small on "Cocitation in Scientific Literature – New Measure of Relationship between 2 Documents." For about two decades this was the most cited paper in the journal. Users may wish to refer to the *HistCite* collections of Small's work: http://garfield.library.upenn.edu/histcomp/henrysmall/#

Papers from JASIS, JASIS&T, American Documentation, 1956-2004

Nodes: 4194

CHRONOLOGICAL SORT

Authors: 3575, Journals: 3, Outer References: 44452
Collection span: 1956 - 2004
View: Overview. Sorted by **year, source, volume, issue, page**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0	24	1 1956 AMERICAN DOCUMENTATION 7(1):1-8 **STRADA F** *The Decimal Classification in Germany*	0	1
2	0	2	2 1956 AMERICAN DOCUMENTATION 7(1):9-21 **GULL CD** *Posting for the Uniterm System of Coordinate Indexing*	1	4
3	0	0	3 1956 AMERICAN DOCUMENTATION 7(1):22-28 **SHARP EM** *Experiences with Automatic Digital Data-Processing*	0	0
4	0	0	4 1956 AMERICAN DOCUMENTATION 7(1):29-32 **MASON WT** *The Dynamics of Documentation*	0	0
5	0	0	5 1956 AMERICAN DOCUMENTATION 7(1):33-35 **BISHOP C** *The Microcard Production of Single Journal Articles*	0	1
6	0	39	6 1956 AMERICAN DOCUMENTATION 7(1):36-39 **HEUMANN KF** *Notes on Negative Data*	0	3
7	0	0	7 1956 AMERICAN DOCUMENTATION 7(1):40-43 **CROOKS E** *Facsimile Systems As an Aid To Research*	0	3
8	0	0	8 1956 AMERICAN DOCUMENTATION 7(1):44-45 **CARRUTHERS RH** *A Simple Method for Figuring Microfilm Footage on a Slide-Rule*	0	2
9	0	0	9 1956 AMERICAN DOCUMENTATION 7(1):46-48 **EVANS MG** *Duplication in Experimental and Theoretical Disciplines and Its Implication for Modern Documentation*	0	1
10	0	0	10 1956 AMERICAN DOCUMENTATION 7(1):49-52 **BROWNSON HL** *International Meetings on Documentation*	0	0

Papers from JASIS, JASIS&T, American Documentation, 1956-2004

LOCAL CITATION SCORE

Nodes: 4194
Authors: 3575, Journals: 3, Outer References: 44452
Collection span: 1956 - 2004
View: Overview. Sorted by **LCS**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 …42

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	8	67	1155 1975 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 26(6):321-343 **SARACEVIC T** *Relevance:Review of and a Framework for Thinking on Notion in Information-Science*	63	213
2	3	21	1176 1976 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 27(3):129-146 **ROBERTSON SE; JONES KS** *Relevance Weighting of Search Terms*	53	307
3	1	20	992 1973 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 24(4):265-269 **SMALL H** *Cocitation in Scientific Literature-New Measure of Relationship between 2 Documents*	44	277
4	11	49	2494 1992 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 43(9):602-615 **HARTER SP** *Psychological Relevance and Information Science*	44	118
5	3	31	2363 1991 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 42(5):361-371 **KUHLTHAU CC** *Inside the Search Process - Information Seeking from the Users Perspective*	38	150
6	1	11	969 1973 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 24(2):87-100 **COOPER WS** *Selecting a Measure of Retrieval Effectiveness*	33	96
7	2	10	1568 1981 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 32(3):163-171 **WHITE HD; GRIFFITH BC** *Author Cocitation - A Literature Measure of Intellectual Structure*	33	120
8	2	25	2272 1990 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 41(4):288-297 **SALTON G; BUCKLEY C** *Improving Retrieval Performance by Relevance Feedback*	32	192

Papers from JASIS, JASIS&T, American Documentation, 1956-2004

GLOBAL CITATION SCORE

Nodes: 4194
Authors: 3575, Journals: 3, Outer References: 44452
Collection span: 1956 - 2004
View: Overview. Sorted by **GCS**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25… 42

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	3	36	2295 1990 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 41(6):391-407 **DEERWESTER S; DUMAIS ST; FURNAS GW; LANDAUER TK** *Indexing by Latent Semantic Analysis*	20	321
2	3	21	1176 1976 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 27(3):129-146 **ROBERTSON SE; JONES KS** *Relevance Weighting of Search Terms*	53	307
3	1	20	992 1973 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 24(4):265-269 **SMALL H** *Cocitation In Scientific Literature - New Measure Of Relationship Between 2 Documents*	44	277
4	8	67	1155 1975 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 26(6):321-343 **SARACEVIC T** *Relevance - Review of and a Framework for Thinking on Notion in Information-Science*	63	213
5	2	25	2272 1990 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 41(4):288-297 **SALTON G; BUCKLEY C** I*mproving retrieval performance by relevance feedback*	32	192
6	2	35	1199 1976 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 27(5-6):292-306 PRICE DJD *General Theory of Bibliometric nd Other Cumulative Advantage Processes*	28	190
7	0	4	276 1963 AMERICAN DOCUMENTATION 14(1):10-& **KESSLER MM** *Bibliographic Coupling between Scientific Papers*	26	155
8	3	31	2363 1991 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 42(5):361-371 KUHLT**HAU CC** *Inside the Search Process - Information Seeking from the Users Perspective*	38	150
9	8	55	2098 1988 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 39(3):161-176 Saracevic T; Kantor P; Chamis Ay; Trivison D *A Study Of Information Seeking And Retrieving .1. Background And Methodology*	30	131
10	2	33	1417 1979 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 30(4):205-214	24	130

Papers from JASIS, JASIS&T, American Documentation, 1956-2004

RANKED ALL-AUTHOR LIST

Total: 3575

View: Overview. Sorted by **number of publications (Pubs)**.

#	Name	TLCS	TGCS	Pubs
1	Boyce BR	2	13	85
2	[Anon]	0	0	75
3	Lunin LF	6	63	33
4	Egghe L	36	144	27
5	Meadow CT	44	167	27
6	Kraft DH	31	126	26
7	Brooks TA	41	148	25
8	Salton G	89	476	25
9	Davis CH	5	52	24
10	Lancaster FW	24	124	22
11	Rousseau R	42	126	21
12	Garfield E	22	188	19
13	Spink A	47	181	19
14	Harter SP	111	361	18
15	Bookstein A	111	416	17
16	Borgman CL	86	373	17
17	Chen HC	52	244	17
18	Hjorland B	28	74	16
19	OCONNOR J	36	124	16
20	White HD	92	316	16

Papers from JASIS, JASIS&T, American Documentation, 1956-2004

Ranked Source list.
Total: 3
View: Overview. Sorted by **number of publications (Pubs)**.

#	Name	TLCS	TGCS	Pubs
1	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	4406	21186	2889
2	AMERICAN DOCUMENTATION	590	3601	780
3	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY	200	751	525

Cited references outside of this network.

Total: 44452 (top 500 shown).
Sorted by **LCS**.

#	LCS	Reference
1	122	SALTON G, 1983, INTRO MODERN INFORMA, WoS
2	102	VANRIJSBERGEN CJ, 1979, INFORMATION RETRIEVA, WoS
3	78	SALTON G, 1989, AUTOMATIC TEXT PROCE, WoS
4	58	LOTKA AJ, 1926, J WASHINGTON ACADEMY, V16, P317 WoS
5	57	SALTON G, 1971, SMART RETRIEVAL SYST, WoS
6	51	MARON ME, 1960, J ACM, V7, P216 WoS
7	46	SALTON G, 1968, AUTOMATIC INFORMATIO, WoS
8	44	GARFIELD E, 1979, CITATION INDEXING, WoS
9	43	SCHAMBER L, 1990, INFORM PROCESS MANAG, V26, P755 WoS
10	43	BATES MJ, 1989, ONLINE REV, V13, P407 WoS
11	40	BELKIN NJ, 1982, J DOC, V38, P61 WoS
12	40	PRICE DJD, 1965, SCIENCE, V149, P510 WoS
13	40	DERVIN B, 1986, ANNU REV INFORM SCI, V21, P3 WoS
14	39	BLAIR DC, 1985, COMMUN ACM, V28, P289 WoS
15	37	BUSH V, 1945, ATLANTIC MONTHLY, V176, P101 WoS
16	32	KUHLTHAU CC, 1993, SEEKING MEANING PROC, WoS
17	32	SMALL H, 1974, SCI STUD, V4, P17 WoS
18	31	BRADFORD SC, 1934, ENGINEERING-LONDON, V137, P85 WoS
19	30	MARCHIONINI G, 1995, INFORMATION SEEKING, WoS
20	30	GARFIELD E, 1972, SCIENCE, V178, P471 WoS

Papers from JASIS, JASIS&T, American Documentation, 1956-2004
Potentially missed citations

216 nodes have citations that may potentially refer to other nodes.

1 | 62 1957 AMERICAN DOCUMENTATION 8(3):211-220
BERNIER CL; HEUMANN KF
CORRELATIVE INDEXES .3. SEMANTIC RELATIONS AMONG SEMANTEMES - THE TECHNICAL THESAURUS

BERNIER CL, 1956, AM DOCUMENTATION, V7, P224 may refer to 27 BERNIER-CL-1956-V7-I3-P222-224
BERNIER CL, 1956, AM DOCUMENTATION, V7, P224 may refer to 34 BERNIER-CL-1956-V7-I4-P283-288

2 | 82 1958 AMERICAN DOCUMENTATION 9(2):77-83
PATTERSON HA; WELT ID
A PUNCH CARD CODE FOR CARDIOVASCULAR PATHOLOGY

WOOD GC, 1957, AM DOCUMENTATION, V8 may refer to 59 WOOD-GC-1957-V8-I3-P168-180

3 | 91 1958 AMERICAN DOCUMENTATION 9(3):192-197
JOYCE T; NEEDHAM RM
THE THESAURUS APPROACH TO INFORMATION-RETRIEVAL

BERNIER CL, 1957, AM DOCUMENTATION, V8, P103 may refer to 46 BERNIER-CL-1957-V8-I1-P47-50
BERNIER CL, 1957, AM DOCUMENTATION, V8, P103 may refer to 62 BERNIER-CL-1957-V8-I3-P211-220
BERNIER CL, 1957, AM DOCUMENTATION, V8, P103 may refer to 72 BERNIER-CL-1957-V8-I4-P306-313

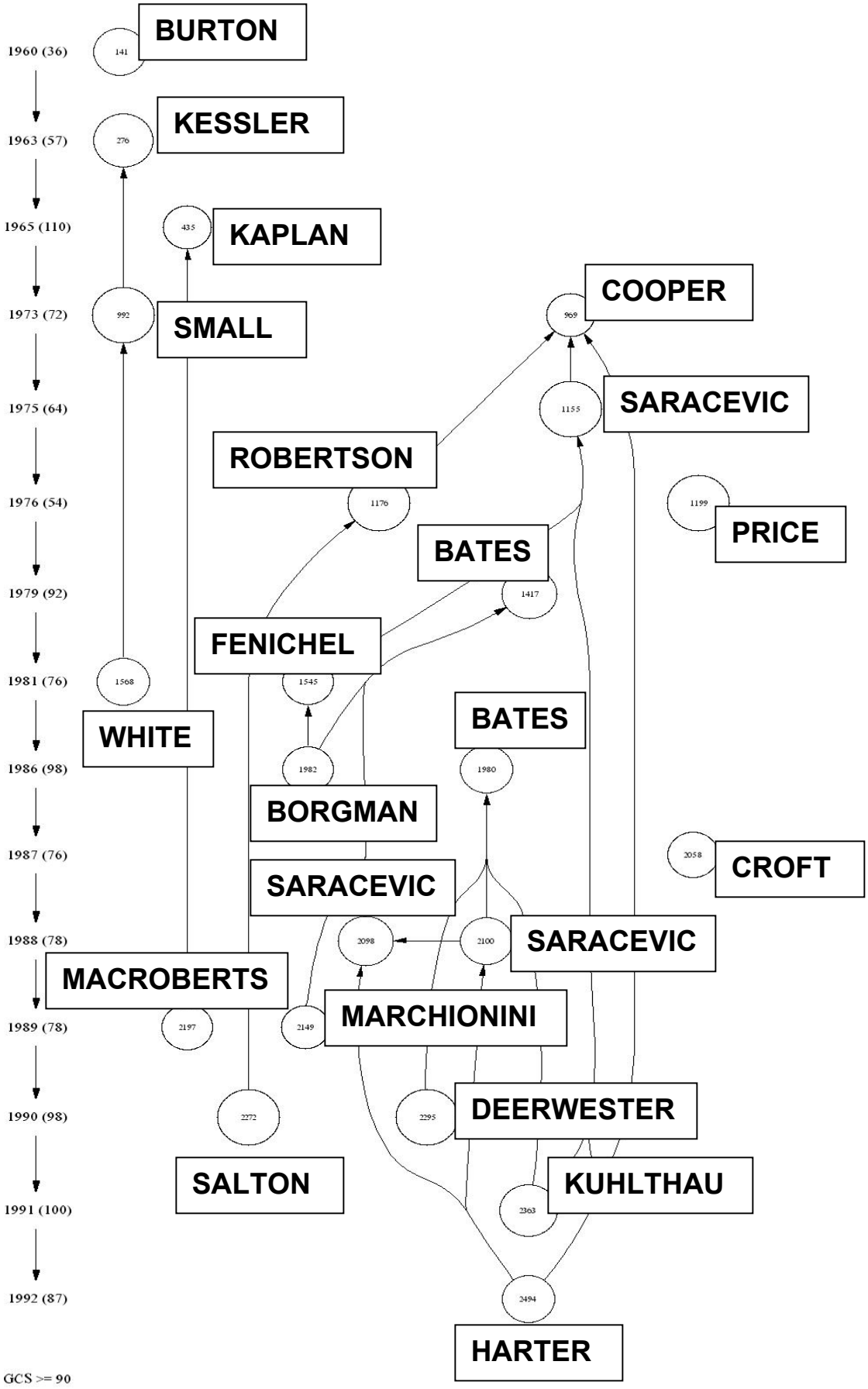
4 | 149 1960 AMERICAN DOCUMENTATION 11(2):91-96
RICHMOND PA
HIERARCHICAL DEFINITION

BERNIER CL, 1957, AM DOCUM, V8, P213 may refer to 46 BERNIER-CL-1957-V8-I1-P47-50
BERNIER CL, 1957, AM DOCUM, V8, P213 may refer to 62 BERNIER-CL-1957-V8-I3-P211-220
BERNIER CL, 1957, AM DOCUM, V8, P213 may refer to 72 BERNIER-CL-1957-V8-I4-P306-313

5 | 188 1961 AMERICAN DOCUMENTATION 12(2):101-&
WHALEY FR
MANIPULATION OF NONCONVENTIONAL INDEXING SYSTEMS

NOLAN JJ, 1959, AM DOC, V10 may refer to 103 NOLAN-JJ-1959-V10-I1-P27-35

JASIST, JASIS, AMERICAN DOCUMENTATION GCS GRAPH



INFORMATION SCIENCE

HISTCITE COLLECTION

(Title only)

In contrast to a search on *JASIST*, we did a general *Web of Science* search on “information sci*”. There were 3306 papers retrieved with this phrase in the title from 1957 to present. The most cited paper (LCS) is the 1968 paper by Hal Borko in *American Documentation*. It was cited by 21 papers within the collection and 30 times globally. The second most cited paper is by B. C. Brookes, published in JASIS in 1980, which was cited 18 times locally, and 80 times globally.

In contrast, when the *HistCite* file was sorted globally, a 1975 paper in *JASIS* by Tefko Saracevic was at the top of the list, followed by a 1992 paper by Steve Harter, also published in *JASIS*.

Papers found in Web of Science title search:

INFORMATION SCI* HISTCITE COLLECTION

(Title only)

CHRONOLOGICAL SORT

Nodes: 2295
Authors: 1917, Journals: 360, Outer References: 21112
Collection span: 1957 - 2004
View: Overview. Sorted by **year, source, volume, issue, page**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0	0	1 1957 CHEMISTRY & INDUSTRY (30):1046-1046 **FARRADANE J** *Information Scientists*	0	0
2	0	1	2 1957 CHEMISTRY & INDUSTRY (33):1127-1127 **BISKE V** *Information Scientists*	1	1
3	0	0	3 1957 CHEMISTRY & INDUSTRY (33):1127-1128 FULLMAN B *Information Scientists*	0	0
4	0	2	4 1957 CHEMISTRY & INDUSTRY (37):1245-1245 **FARRADANE J** *Institute of Information Scientists*	0	0
5	1	2	5 1957 CHEMISTRY & INDUSTRY (38):1275-1275 **NEVILLE HH** *Institute of Information Scientists*	0	0
6	0	1	6 1959 METRIKA 2(2):167-168 **ADAM A** *Elementary Theories of Information-Science - German - Zemanek, H*	0	0
7	0	1	7 1960 METRIKA 3(1):81-84 **SAGOROFF S** *Measures and Rules in the Economics of Business, Introduction To the Principles of Information-Science in the Study of Industrial-Enterprise - German - Adam,A*	0	0
8	0	0	8 1962 JOURNAL OF CHEMICAL DOCUMENTATION 2(2):72-74 **DYSON GM; FARRADANE JEL** *The Aims of the Institute-of-Information-Scientists-Ltd*	0	1
9	0	0	9 1962 JOURNAL OF CHEMICAL DOCUMENTATION 2(2):74-76 **DYSON GM; FARRADANE JEL** *Education in Information Work - The Syllabus and Present Curriculum of the Institute-of-Information-Scientists-Ltd*	1	3
10	0	0	10 1962 PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS 50(5):609-& **BOWIE RM** *Information Science and Industry 50 Years Hence*	1	1

INFORMATION SCI* HISTCITE COLLECTION

(Title only)

LOCAL CITATION SCORE

Nodes: 2295
Authors: 1917, Journals: 360, Outer References: 21112
Collection span: 1957 - 2004
View: Overview. Sorted by **LCS**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0	3	86 1968 AMERICAN DOCUMENTATION 19(1):3-& **BORKO H** *Information Science - What Is It*	21	30
2	0	0	621 1980 JOURNAL OF INFORMATION SCIENCE 2(3-4):125-133 **BROOKES BC** *The Foundations Of Information-Science .1. Philosophical Aspects*	18	80
3	0	7	1149 1987 LIBRARY & INFORMATION SCIENCE RESEARCH 9(3):173-185 **FEEHAN PE; GRAGG WL; HAVENER WM; KESTER DD** *Library And Information-Science Research - An Analysis Of The 1984 Journal Literature*	18	39
4	7	59	1986 1998 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 49(4):327-355 **WHITE HD; MCCAIN KW** *Visualizing a discipline: Author co-citation analysis of information science 1972-95*	18	89
5	20	121	428 1977 ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY 12():249-275 **SHERA JH; CLEVELAND DB** *History And Foundations Of Information-Science*	17	28
6	1	25	340 1975 INFORMATION SCIENTIST 9(4):127-140 **WERSIG G; NEVELING U** *Phenomena Of Interest To Information-Science*	16	28
7	0	67	361 1975 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 26(6):321-343 **SARACEVIC T** *RelevanceReview of and a Framework for Thinking on Notion in Information-Science*	14	213
8	4	173	1823 1995 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 46(6):400-425 **HJORLAND B; ALBRECHTSEN H** *Toward a New Horizon in Information-Science - Domain-Analysis*	14	42
9	0	5	184 1971 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 22(3):193 **BELZER J; ISAAC A; FINKELST.E; WILLIAMS J** *Curricula in Information Science - Analysis and Development*	13	22
10	1	22	222 1972 JOURNAL OF LIBRARIANSHIP 4(3):157-187 **WELLISCH H** *From Information Science To Informatics - Terminological Investigation*	13	30

Papers found in Web of Science title search:

INFORMATION SCI* HISTCITE COLLECTION

(Title only)

GLOBAL CITATION SCORE

Nodes: 2295
Authors: 1917, Journals: 360, Outer References: 21112
Collection span: 1957 - 2004
View: Overview. Sorted by **GCS**.
Page **1**: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0	67	361 1975 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 26(6):321-343 **SARACEVIC T** *RelevanceReview of and a Framework for Thinking on Notion in Information-Science*	14	213
2	2	49	1611 1992 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 43(9):602-615 **HARTER SP** *Psychological Relevance And Information-Science*	4	118
3	7	59	1986 1998 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 49(4):327-355 **WHITE HD; MCCAIN KW** *Visualizing a discipline: Author co-citation analysis of information science, 1972-95*	18	89
4	0	0	621 1980 JOURNAL OF INFORMATION SCIENCE 2(3-4):125-133 **BROOKES BC** *The Foundations of Information-Science .1. Philosophical Aspects*	18	80
5	5	57	497 1978 JOURNAL OF DOCUMENTATION 34(1):55-85 **BELKIN NJ** *Information Concepts for Information-Science*	13	63
6	0	111	790 1983 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 34(4):247-256 **RICE RE; BORGMAN CL** *Use of Computer-Monitored Data in Information-Science& Communication-Research*	1	46
7	1	5	912 1985 COLLEGE & RESEARCH LIBRARIES 46(1):40-47 **KOHL DF; DAVIS CH** *Ratings of Journals by ARL Library Directors and Deans of Library and Information-Science Schools*	12	44
8	6	29	1407 1990 JOURNAL OF INFORMATION SCIENCE 16(1):11-15 **BELKIN NJ** *The Cognitive Viewpoint in Information-Science*	6	44
9	0	31	1589 1992 INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SYSTEMS 6(1):31-45 **GOODCHILD MF** *Geographical Information-Science*	3	43
10	4	173	1823 1995 JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE 46(6):400-425 **HJORLAND B; ALBRECHTSEN H** *Toward a New Horizon in Information-Science - Domain-Analysis*	14	42

Papers found in Web of Science title search:

INFORMATION SCI* HISTCITE COLLECTION

(Title Only)

RANKED ALL-AUTHOR LIST

Total: 1917

View: Overview. Sorted by **number of publications (Pubs)**.

Page **1**: 1 2 3 4 5 6 7 8 9 10

#	Name	TLCS	TGCS	Pubs
1	[Anon]	0	0	80
2	Garfield E	8	14	27
3	BROOKES BC	54	220	19
4	Hayes RM	14	28	17
5	Hjorland B	38	136	17
6	Oppenheim C	10	44	16
7	STEVENS N	0	0	15
8	Saracevic T	53	290	14
9	Cronin B	11	45	13
10	Hernon P	3	16	12
11	Wersig G	25	60	11
12	FROEHLICH TJ	0	6	10
13	RAITT D	0	0	10
14	BELKIN NJ	22	158	9
15	BORKO H	31	55	9
16	FARRADANE J	12	34	9
17	Harter SP	16	173	9
18	Budd JM	15	46	8
19	Kuhlen R	1	3	8
20	Lipetz BA	0	0	8

Papers found in Web of Science title search:

INFORMATION SCI* HISTCITE COLLECTION

(Title only)

Total: 360

RANKED SOURCE LIST

View: Overview. Sorted by **number of publications (Pubs)**.

#	Name	TLCS	TGCS	Pubs
1	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	251	1249	156
2	JOURNAL OF DOCUMENTATION	74	299	111
3	JOURNAL OF INFORMATION SCIENCE	90	419	90
4	JOURNAL OF EDUCATION FOR LIBRARY AND INFORMATION SCIENCE	44	155	86
5	NACHRICHTEN FUR DOKUMENTATION	7	44	83
6	LIBRARY QUARTERLY	44	162	70
7	EDUCATION FOR INFORMATION	15	86	69
8	INFORMATION PROCESSING & MANAGEMENT	63	142	67
9	LIBRARY JOURNAL	27	42	66
10	LIBRARY & INFORMATION SCIENCE RESEARCH	91	266	52
11	COLLEGE & RESEARCH LIBRARIES	48	142	50
12	PROCEEDINGS OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	6	11	49
13	ZENTRALBLATT FUR BIBLIOTHEKSWESEN	4	9	41
14	PROCEEDINGS OF THE ASIS ANNUAL MEETING	2	16	35
15	BULLETIN OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	2	13	32
16	JOURNAL OF ACADEMIC LIBRARIANSHIP	0	3	32
17	CANADIAN LIBRARY JOURNAL	8	11	30
18	SPECIAL LIBRARIES	21	52	30
19	LIBRARY TRENDS	24	96	29
20	LIBRI	27	63	27

Papers found in Web of Science title search:

INFORMATION SCI* HISTCITE COLLECTION

(Title only)

Cited references outside of this network

Total: 21112 (top 500 shown).

Sorted by **LCS**.

#	LCS	Reference
1	23	HJORLAND B, 1997, INFORMATION SEEKING, WoS
2	21	PERITZ BC, 1980, LIBR RES, V2, P251 WoS
3	20	NOUR MM, 1985, LIBR INFORM SCI RES, V7, P261 WoS
4	20	KUHN TS, 1970, STRUCTURE SCI REVOLU, WoS
5	17	BUSH V, 1945, ATLANTIC MONTHLY, V176, P101 WoS
6	16	MACHLUP F, 1983, STUDY INFORMATION IN, WoS
7	16	GARFIELD E, 1979, CITATION INDEXING, WoS
8	15	PERITZ BC, 1981, LIBR RES, V3, P47 WoS
9	15	INGWERSEN P, 1992, INFORMATION RETRIEVA, WoS
10	15	HAYES RM, 1983, J EDUC LIBR INF SCI, V23, P151 WoS
11	14	SARACEVIC T, 1971, INFORMATION STORAGE, V7, P127 WoS
12	13	DERVIN B, 1986, ANNU REV INFORM SCI, V21, P3 WoS
13	13	FAIRTHORNE RA, 1967, J ASSOC COMPUT MACH, V14, P710 WoS
14	12	GARFIELD E, 1989, CURRENT CONTENT 0501, P3 WoS
15	12	WHITE HD, 1981, J AM SOC INFORM SCI, V32, P163 WoS
16	12	BUCKLAND M, 1991, INFORMATION INFORMAT, WoS
17	12	EDELMAN H, 1986, LIBRARIES INFORMATIO, WoS
18	12	VICKERY BC, 1987, INFORMATION SCI THEO, WoS
19	11	HOUSER L, 1978, SEARCH SCI PROFESSIO, WoS
20	11	SHANNON CE, 1949, MATH THEORY COMMUNIC, WoS
21	11	SHERA JH, 1972, F ED LIBRARIANSHIP, WoS
22	11	MEADOWS AJ, 1987, ORIGINS INFORMATION, WoS
23	11	PRICE DJD, 1965, SCIENCE, V149, P510 WoS
24	10	SHANNON CE, 1948, BELL SYST TECH J, V27, P379 WoS
25	10	RICE RE, 1990, SCHOLARLY COMMUNICAT, P138 WoS

Papers found in Web of Science title search:

INFORMATION SCI* HISTCITE COLLECTION

(Title only)

POTENTIALLY MISSED CITATIONS

87 nodes have citations that may potentially refer to other nodes.

1 | 56 1967 ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY 2():419-444
HARVEY JF
PROFESSIONAL ASPECTS OF INFORMATION SCIENCE AND TECHNOLOGY

DONOHUE JC, 1966, AM DOC, V17, P120 may refer to 41 DONOHUE-JC-1966-V17-I3-P117-&

2 | 60 1967 DREXEL LIBRARY QUARTERLY 3(1):108-114
REES A; RICCIO D
CURRICULUM - INFORMATION SCIENCE

DONOHUE JC, 1966, AM DOC, V17, P120 may refer to 41 DONOHUE-JC-1966-V17-I3-P117-&

3 | 159 1971 ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY 6():399-410
FARRADANE J
PROFESSIONAL ASPECTS OF INFORMATION SCIENCE AND TECHNOLOGY

SCHULTZ CK, 1969, AM DOC, V20, P152 may refer to 105 SCHULTZ-CK-1969-V20-I2-P109-110
SHERA JH, 1969, ANN REV INFORMATION, V4, P439 may refer to 118 SHERA-JH-1969-V4--P438-471

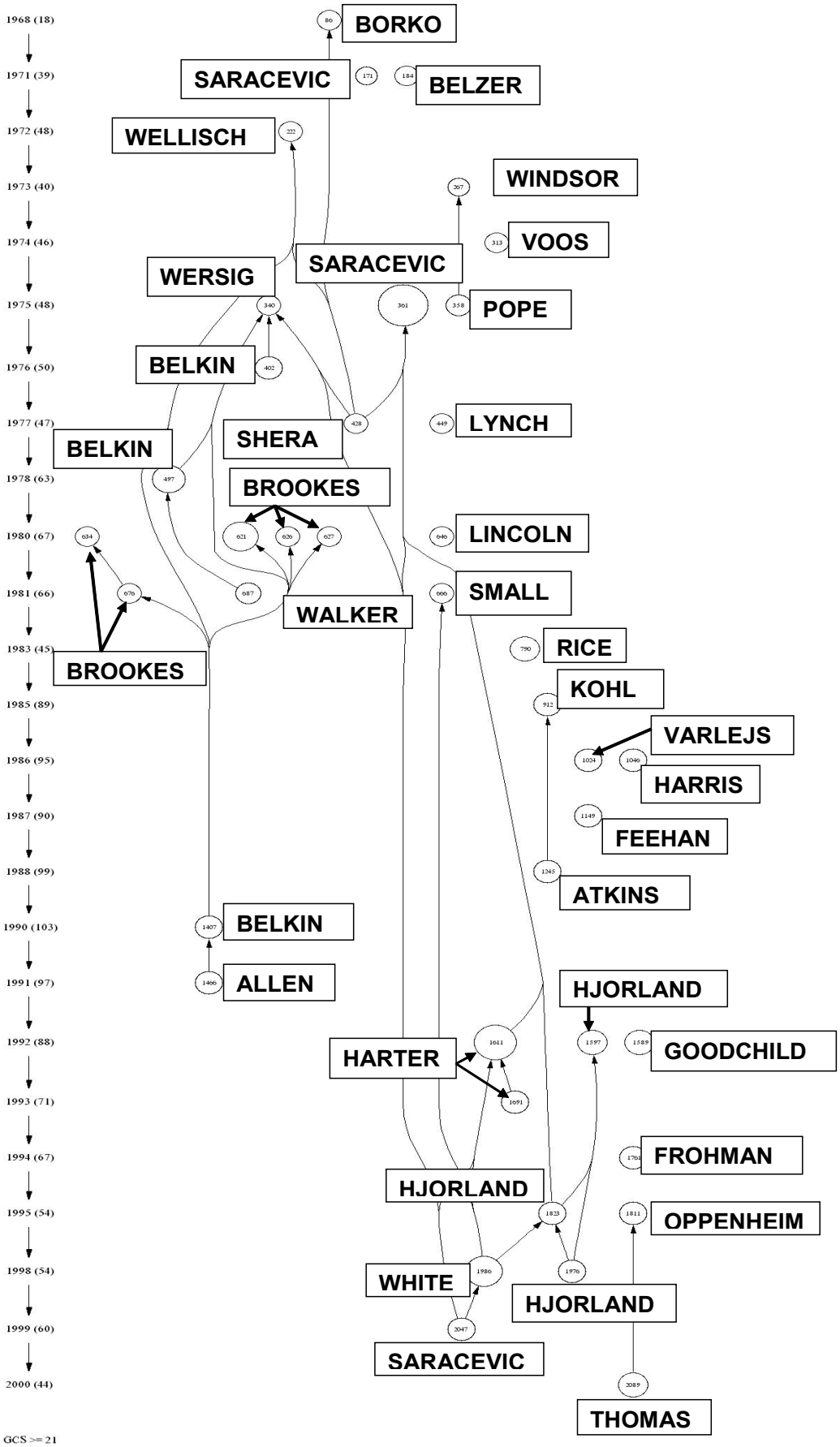
4 | 188 1971 LIBRARY RESOURCES & TECHNICAL SERVICES 15(4):439-&
WELLISCH H
DOCUMENTATION-IN-SOURCE FOR LIBRARY AND INFORMATION SCIENCE

ATHERTON P, 1968, ANNUAL REVIEW INFORM, V3, P336 may refer to 88 ATHERTON-P-1968-V3--P329-355

5 | 199 1972 BULLETIN OF MATHEMATICAL STATISTICS 15(1-2):57-65
KITAGAWA T
OSCILLATORY PHENOMENA IN CELL SPACE WITH INHIBITION STATES PHI - INFORMATION SCIENCE APPROACH TO BIOMATHEMATICS .10.

KITAGAWA T, 1972, B MATH STAT, V15, may refer to 198 KITAGAWA-T-1972-V15-I1-2-P43-55
KITAGAWA T, 1972, B MATH STAT, V15, may refer to 200 KITAGAWA-T-1972-V15-I1-2-P67-84

GCS HISTORIOGRAPH ON INFORMATION SCIENCE



DIGITAL LIBRARIES

A general search on *Web of Science* was done on “digital librar*” with the following papers from the outer references added:

SALTON G, 1983, INTRO MODERN INFORMA,
SALTON G, 1989, AUTOMATIC TEXT PROCE,
LESK M, 1997, PRACTICAL DIGITAL LI,
MARCHIONINI G, 1995, INFORMATION SEEKING,
BUSH V, 1945, ATLANTIC MONTHLY, V176, P101
KAHN R, 1995, FRAMEWORK DISTRIBUTE,
BATES MJ, 1989, ONLINE REV, V13, P407
NIELSEN J, 1993, USABILITY ENG,
ARMS WY, 2000, DIGITAL LIB,
BAEZAYATES R, 1999, MODERN INFORMATION R

There were 1195 papers retrieved from 1945-2004 when the *HistCite* program was run. The LCS most cited work is the 1983 book by Salton and McGill which was cited 35 times by papers within the collection. This is followed by the 1995 article by Levy and Marshall in *Communications of the ACM* and the 1997 book by Lesk.

The 1983 book by Salton and McGill was also at the top when the file was sorted by global citation Score (GCS). It was followed by a 1989 book by Salton, and then Vannevar Bush’s classic 1945 *Atlantic Monthly* article.

Papers found in an ISI Web of Science

TOPIC SEARCH: DIGITAL LIBRAR*

plus the following added:

SALTON G, 1983, INTRO MODERN INFORMA,
SALTON G, 1989, AUTOMATIC TEXT PROCE,
LESK M, 1997, PRACTICAL DIGITAL LI,
MARCHIONINI G, 1995, INFORMATION SEEKING,
BUSH V, 1945, ATLANTIC MONTHLY, V176, P101
KAHN R, 1995, FRAMEWORK DISTRIBUTE,
BATES MJ, 1989, ONLINE REV, V13, P407
NIELSEN J, 1993, USABILITY ENG,
ARMS WY, 2000, DIGITAL LIB,
BAEZAYATES R, 1999, MODERN INFORMATION R,

Nodes: 1195

CHRONOLOGICAL SORT

Authors: 2121, Journals: 322, Outer References: 19084
Collection span: 1945 - 2004
View: Overview. Sorted by **year, source, volume, issue, page**.
Page **1**: 1 2 3 4

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0		1 1945 The Atlantic Monthly 176(1):101-108 **BUSH V** *As We May Think*	17	600
2	0		2 1983 An Introduction to Modern Information Retrieval 1(1):1-1 **SALTON G; MCGILL MJ** *Book*	35	1170
3	0		3 1989 Automatic Text Processing - The Transformation, Analysis, and Retrieval of Information by Computer 1(1):1-1 **SALTON G** *Book*	21	635
4	0	49	4 1989 ONLINE REVIEW 13(5):407-424 **BATES MJ** *The Design of Browsing and Berrypicking Techniques for the Online Search Interface*	15	144
5	0	1	5 1990 DATABASE 13(6):105-108 **GILLIAM E; SLUZENSKI K** *CD-ROM User Groups - The Experiences of Digital Equipment Corporations Digital Library Network*	0	2
6	0	2	6 1990 INTERDISCIPLINARY SCIENCE REVIEWS 15(3):196-198 **HEINZ L** *Bridges - A Digital Library – Comment*	0	0
7	0	0	7 1991 SMPTE JOURNAL 100(6):423-426 **CARSON K; DANIELSON J** *An Integrated Digital Production Suite*	0	0
8	0	0	8 1992 INFORMATION TECHNOLOGY AND LIBRARIES 11(1):40-41 **SCHEID BL** *1st Annual VTLS Library Directors Conference - Linking Multimedia Digital Libraries - Where We Are, Where Were Going – Introduction*	0	0

Papers found in an ISI Web of Science

TOPIC SEARCH: DIGITAL LIBRAR*

plus the following added:

SALTON G, 1983, INTRO MODERN INFORMA,
SALTON G, 1989, AUTOMATIC TEXT PROCE,
LESK M, 1997, PRACTICAL DIGITAL LI,
MARCHIONINI G, 1995, INFORMATION SEEKING,
BUSH V, 1945, ATLANTIC MONTHLY, V176, P101
KAHN R, 1995, FRAMEWORK DISTRIBUTE,
BATES MJ, 1989, ONLINE REV, V13, P407
NIELSEN J, 1993, USABILITY ENG,
ARMS WY, 2000, DIGITAL LIB,
BAEZAYATES R, 1999, MODERN INFORMATION R

Nodes: 1195

LOCAL CITATION SCORE

Authors: 2121, Journals: 322, Outer References: 19084
Collection span: 1945 - 2004
View: Overview. Sorted by **LCS**.
Page **1**: 1 2 3 4

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0		2 1983 An Introduction to Modern Information Retrieval 1(1):1-1 **SALTON G; MCGILL MJ** *Book*	35	1170
2	0	17	37 1995 COMMUNICATIONS OF THE ACM 38(4):77-84 **LEVY DM; MARSHALL CC** *Going Digital - A Look At Assumptions Underlying Digital Libraries*	35	53
3	0		252 1997 Practical Digital Libraries: Books, Bytes, And Bucks 1(1):1-1 **LESK M** *Book*	24	54
4	0		65 1995 Information Seeking in Electronic Environments 1(1):1-1 **MARCHIONINI G** *Book*	22	147
5	5	41	413 1999 INFORMATION PROCESSING & MANAGEMENT 35(3):227-243 **BORGMAN CL** *What are digital libraries? Competing visions.*	22	25
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7	12	320	90 1996 ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY 31():301-401 **BISHOP AP; STAR SL** *Social informatics of digital library use and infrastructure*	21	45
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9	0		1 1945 The Atlantic Monthly 176(1):101-108 **BUSH V** *As We May Think*	17	600

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plus the following added:

SALTON G, 1983, INTRO MODERN INFORMA,
SALTON G, 1989, AUTOMATIC TEXT PROCE,
LESK M, 1997, PRACTICAL DIGITAL LI,
MARCHIONINI G, 1995, INFORMATION SEEKING,
BUSH V, 1945, ATLANTIC MONTHLY, V176, P101
KAHN R, 1995, FRAMEWORK DISTRIBUTE,
BATES MJ, 1989, ONLINE REV, V13, P407
NIELSEN J, 1993, USABILITY ENG,
ARMS WY, 2000, DIGITAL LIB,
BAEZAYATES R, 1999, MODERN INFORMATION R

Nodes: 1195

GLOBAL CITATION SCORE

Authors: 2121, Journals: 322, Outer References: 19084
Collection span: 1945 - 2004
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Page **1**: 1 2 3 4

#	LCR	NCR	Nodes / Authors / Date	LCS	GCS
1	0		2 1983 An Introduction to Modern Information Retrieval 1(1):1-1 **SALTON G; MCGILL MJ** *Book*	35	1170
2	0		3 1989 Automatic Text Processing - The Transformation, Analysis, and Retrieval of Information by Computer 1(1):1-1 **SALTON G** *Book*	21	635
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5	0		459 1999 Modern Information Retrieval 1(1):1-1 **BAEZAYATES R; RIBIERO-NETO B** *Book*	13	270
6	0	20	128 1996 IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE 18(8):837-842 **MANJUNATH BS; MA WY** *Texture features for browsing and retrieval of image data*	8	183
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Total: 2121
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Page **1**: 1 2 3 4

#	Name	TLCS	TGCS	Pubs
1	[Anon]	0	0	25
2	Fox EA	65	90	19
3	Chen HC	69	139	17
4	Witten IH	8	9	13
5	Marchionini G	70	226	12
6	Adam NR	6	8	10
7	Chowdhury GG	16	20	10
8	Borgman CL	30	61	9
9	D'Alessandro DM	0	31	9
10	Bishop AP	48	82	7
11	D'Alessandro MP	0	26	7
12	Goh DHL	1	0	7
13	Schatz B	51	59	7
14	Smith TR	25	43	7
15	Theng YL	1	0	7

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LESK M, 1997, PRACTICAL DIGITAL LI,
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Total: 322

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#	Name	TLCS	TGCS	Pubs
1	RESEARCH AND ADVANCED TECHNOLOGY FOR DIGITAL LIBRARIES, PROCEEDINGS	10	16	44
2	DIGITAL LIBRARIES: PEOPLE, KNOWLEDGE, AND TECHNOLOGY, PROCEEDINGS	1	0	41
3	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	128	270	39
4	COMMUNICATIONS OF THE ACM	143	237	35
5	DIGITAL LIBRARIES: TECHNOLOGY AND MANAGEMENT OF INDIGENOUS KNOWLEDGE FOR GLOBAL ACCESS	0	0	35
6	ELECTRONIC LIBRARY	16	27	35
7	RESEARCH AND ADVANCED TECHNOLOGY FOR DIGITAL LIBRARIES	6	16	35
8	JOURNAL OF ACADEMIC LIBRARIANSHIP	21	45	31
9	LIBRARY TRENDS	23	80	27
10	ONLINE INFORMATION REVIEW	1	3	27
11	PROGRAM-ELECTRONIC LIBRARY AND INFORMATION SYSTEMS	1	12	27
12	COMPUTER	91	224	25
13	INFORMATION PROCESSING & MANAGEMENT	78	151	21
14	DIGITAL LIBRARIES	2	4	20
15	INFORMATION TECHNOLOGY AND LIBRARIES	5	18	19
16	JOURNAL OF DOCUMENTATION	18	30	19

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Total: 19084 (top 500 shown).
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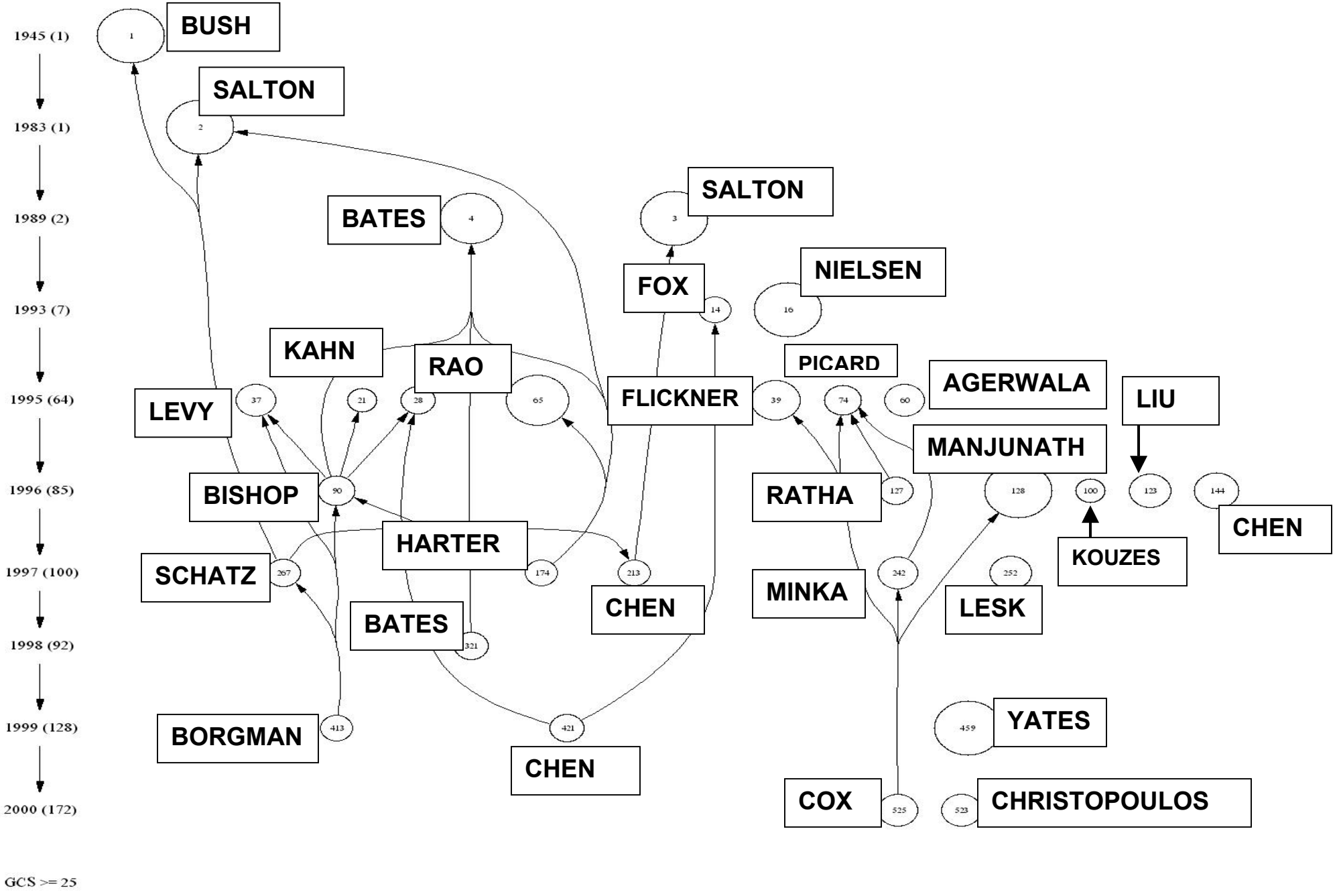
14	9	MARSHALL CC, 1997, P 2 ACM INT C DIG LI, P131 WoS
15	9	CHEN HC, 1996, J VIS COMMUN IMAGE R, V7, P88 WoS

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