State of the art literature review on...

Dutra – 2016

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UNM

Initial question?

- Key authors ?
- Best journals ?

Agenda

- Initial concepts

- Histcite – Free software

- Using an example to discover Histcite

- WOK: source to Histcite

- Guide to Install HIstcite

Some typical questions that can be answered by HistCite analysis

- How much literature has been published in this field?

- When and in what countries has it been published?

- What countries are the major contributors to this field?

- What journals cover the literature of the field?

- Who are the key authors in this field?

- Which articles are the most important?

- How have the various contributors to the field influenced each other?

HistCite (free) – bibliometric analysis

- it is a software package used for bibliometric analysis and information visualization
- Input: bibliographic information (titles, authors, dates, author addresses, references, etc.)
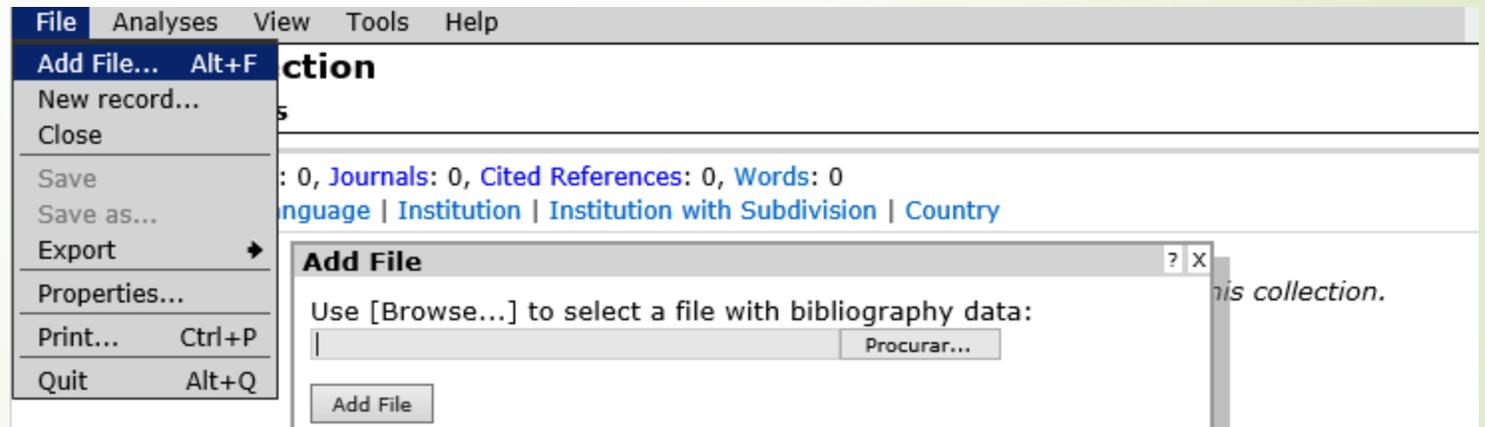
Open Histcite

- Run Histcite

- Use Firefox browser and type the following URL (Close IE bowser in order to have only one version running of Histcite). Minimize (do not close) the window with black background.
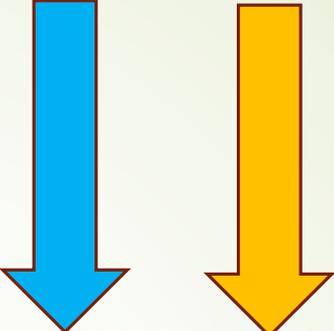
`http://127.0.0.1:1925/`

- File /Add file

- Select savedrecs.txt file and press <add file>

The saverecs.txt should be in c:/fakepath

Publication Year

#	Publication Year	Recs	TLCS	TGCS
1	2008	1	0	7
2	2007	4	2	34
3	2006	25	8	245
4	2005	28	11	303
5	2004	30	12	385
6	2003	30	36	472
7	2002	37	58	732
8	2001	34	81	786
9	2000	23	49	369
10	1999	37	85	656
11	1998	20	69	603
12	1997	21	82	725

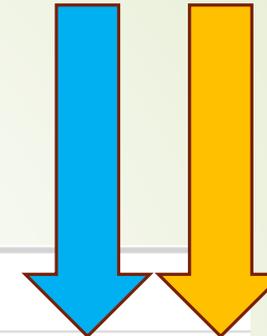TLCS – Total Local citation score -> number of citations to the journal from papers WITHIN the collection

TGCS – Total Global citation score -> number of citations to the Journal from WOK collection

Journals

Records: 500, Authors: 756, Journals: 202, Cited References: 14088, Words: 1215
Yearly output | Document Type | Language | Institution | Institution with Subdivision | Country

|< << < > >> >|

#	Journal	Recs	TLCS	TGCS
1	SCIENTOMETRICS	68	159	1178
2	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	36	213	1287
3	JOURNAL OF INFORMATION SCIENCE	22	97	452
4	INFORMATION PROCESSING & MANAGEMENT	17	36	255
5	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY	17	41	458
6	JOURNAL OF DOCUMENTATION	12	37	335
7	COLLEGE & RESEARCH LIBRARIES	11	18	216
8	OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE	11	32	131
9	BULLETIN OF THE MEDICAL LIBRARY ASSOCIATION	7	15	89
10	LIBRARY & INFORMATION SCIENCE RESEARCH	7	12	80
11	SOCIAL STUDIES OF SCIENCE	7	30	161

TLCS – Total Local citation score -> number of citations to the Journal from papers WITHIN the collection

TGCS – Total Global citation score -> number of citations to the Journal from WOK collection

Authors

File | Analyses | View | Tools | Help

Untitled Collection
All-Author List (756)

Records: 500, Authors: 756, Journals: 2___, Cited ___fer___
Yearly output | Document Type | Langu___ | Insti___ion

|< << < > >> >|

#	Author	Recs	TLCS	TGCS
1	Garfield E	14	119	1050
2	Thelwall M	12	42	388
3	White HD	7 [2.4%] 50		364
4	McCain KW	6	63	399
5	Moed HF	6	30	194
6	Cronin B	5	35	146
7	Kostoff RN	5	16	91
8	Tijssen RJW	5	6	93
9	Willett P	5	16	67
10	Cohn EG	4	4	55
11	Eom SB	4	15	63
12	Jones AW	4	5	42
13	Leydesdorff L	4	18	125
14	Mela GS	4	5	76
15	Peritz BC	4	8	49
16	Wilson CS	4	4	48
17		3	2	29

127.0.0.1:1925/au/653/

TGCS – Total Global citation score -> number of citations to the author from WOK collection

TLCS – Total Local citation score -> number of citations to the author from papers WITHIN the collection

Cited References (1 to 14,088 references)

Records in blue are part of the collection.
Records in black are not part of the collection as they did not meet Web of Science search **criteria used by you**, or **they are not indexed in Web of Science**.

Un[tit]led Collection
Cit[ed r]eference List (14[0]88) including 327 records, 43 on [t]his page (Hide 43 recor[ds]

Re[cords]: 500, Authors: 75[6], Journals: 202, Cited References: 1[4]088, Words: 1215
Ye[ar, O]utput | Documen[t] Type | Language | Institution | Inst[it]ution with Subdivision | Count[ry]

#
|< [<] <   > >> >|

The "WoS" link will automatically search Web of Science for the cited reference

The "+ Make Record" link (available only on references in black that are not in the collection) allows the user to manual turn a reference into a record in the collection

#	Author / Year / Journal			Recs
1	GARFIELD E, 1979, CITATION INDEXING		WoS	73
2	GARFIELD E, 1972, SCIENCE, V178, P471		WoS	69
3	MACROBERTS MH, 1989, J AM SOC INFORM SCI, V40, P342		WoS	50
4	SMALL H, 1973, J AM SOC INFORM SCI, V24, P265	⊕	WoS	46
5	PRICE DJD, 1965, SCIENCE, V149, P510	⊕	WoS	43
6	SMITH LC, 1981, LIBR TRENDS, V30, P83		WoS	38
7	WHITE HD, 1981, J AM SOC INFORM SCI, V32, P163	⊕	WoS	33
8	GARFIELD E, 1955, SCIENCE, V122, P108	⊕	WoS	31
9	MCCAIN KW, 1990, J AM SOC INFORM SCI, V41, P433	⊕	WoS	30
10	WHITE HD, 1989, ANNU REV INFORM SCI, V24, P119	⊕	WoS	30
11	SMALL H, 1974, SCI STUD, V4, P17	⊕	WoS	28
12	MORAVCSIK MJ, 1975, SOC STUD SCI, V5, P86	⊕	WoS	27
13	PRICE DJD, 1963, LITTLE SCI BIG SCI	⊕	WoS	25
14	SMALL HG, 1978, SOC STUD SCI, V8, P327	⊕	WoS	24
15	CHUBIN DE, 1975, SOC STUD SCI, V5, P423	⊕	WoS	23
16	CRONIN B, 1984, CITATION PROCESS ROL	⊕	WoS	23
17	NARIN F, 1976, EVALUATIVE BIBLIOMET	⊕	WoS	23

Categories

- Authors
- Journals
- Cited References
- Yearly output
- Country

- Historiographs - chronological citation network showing citation links between papers.
  - TOOLS – GRAPH MAKER

Understanding better

Web of Science collection

- LCS – Local citation score -> number of citations to the paper from WITHIN the collection
- GCS – Global citation score-> number of citations to the paper from ALL sources
- LCR – Local cited references -> Number of records in the collection that are cited by the paper. This is the relevance of the paper to the collection
- CR – Number of cited references -> Total cited references in the bibliography of the paper

GCS

cites

LCR

Paper 2   Paper 1

Paper 3
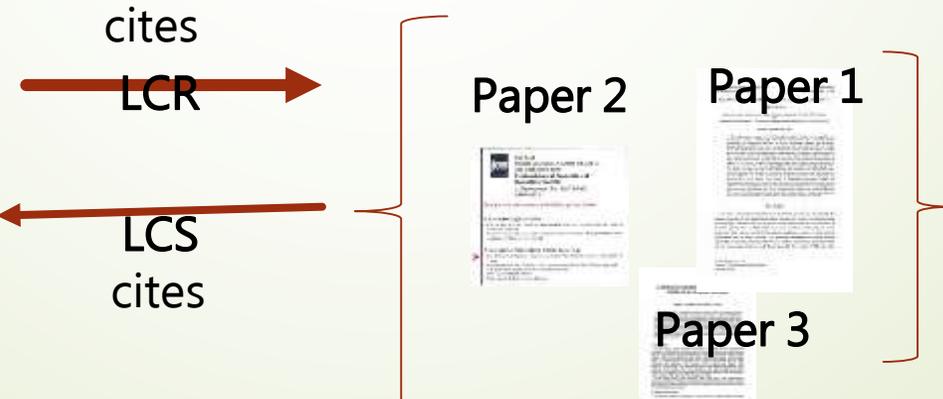
Paper

LCS
cites

Your collection

HistCite - Graph Maker - Internet Explorer

http://127.0.0.1:192?/graph/GraphMaker

Graphs   Help   **Print graph**   **Print text**   **Keep graph**   **PostScript** (Letter pages: 2)

Make graph

Select by
LCS ▾ count ▾
☑ Limit: 30
☐ Use 0 marks

– Node
Shape: circle ▾
Size:
⦿ Scale * 1
○ Fixed 0.2   in

+ Node distance

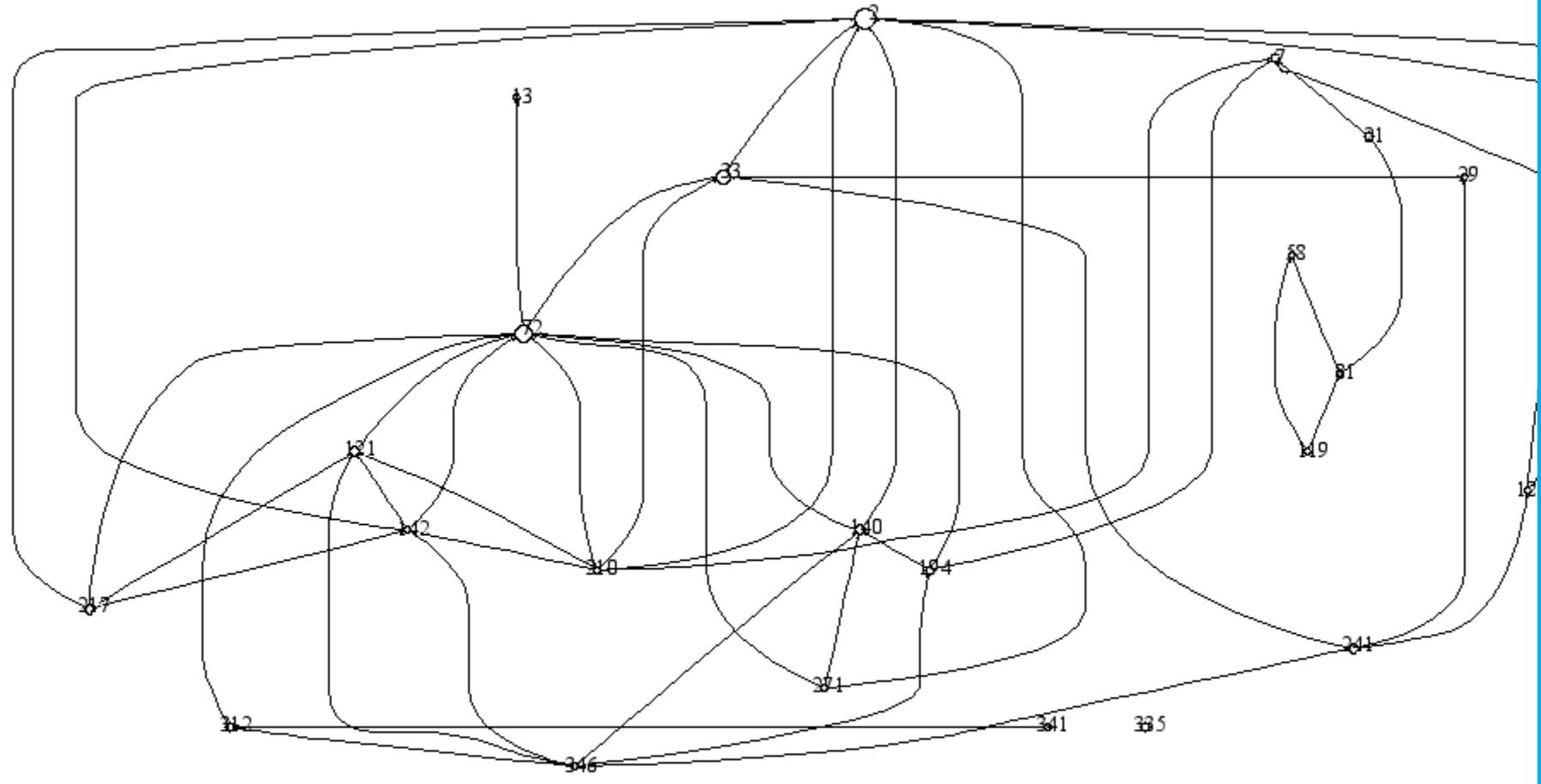**– Id placement**
outside node ▾
Proximity: 1.1

+ Arrowhead

– Font sizes
Nodes: 60 pt
Years: 60 pt
Month: 8 pt

– Display
☑ Draw links
☐ Merge links
☐ Gap years
☐ # of records
☑ Months
☑ Info
☑ Legend brief ▾
Size: window ▾

Make graph

Export to file

format: Pajek 1 ▾

1972
1975
1977
1979
1981
1985
1986
1987
1989
1990
1991
1992
1993
1994
1996
1997
1998
1999
2001
2002

Nodes: 30, Links: 50
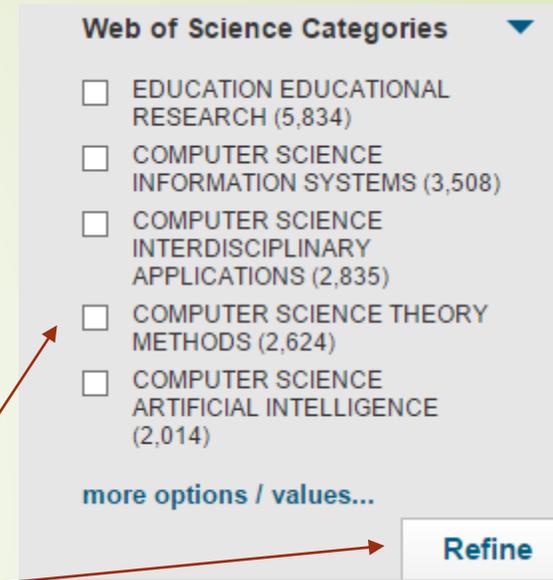LCS, top 30; Min: 10, Max: 69 (LCS scaled)

			LCS	GCS
1.	2	GARFIELD E, 1972, SCIENCE, V178, P471	69	732
2.	7	WADE N, 1975, SCIENCE, V188, P429	14	78
3.	9	WHITE MJ, 1977, AMER PSYCHOL, V32, P301	12	75

Do your search using WOK

- http://wokinfo.com/

- Product access -> Web of Science

- Select *Web of Science core collection*

- We need at least 300 papers for better results
  - Use "AND" connector and other options of the left side to refine the results, if needed
  - Time span -> all years

- Initially include all papers in the marked list

- Review the Market list and delete any paper that should no belong to the list

Quick reference guide to WOS - http://wokinfo.com/media/pdf/qrc/wosqrc.pdf

Video tutorials for WOK - http://wokinfo.com/training_support/training/web-of-knowledge/

Web of Science Categories ▼

☐ EDUCATION EDUCATIONAL RESEARCH (5,834)

☐ COMPUTER SCIENCE INFORMATION SYSTEMS (3,508)

☐ COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS (2,835)

☐ COMPUTER SCIENCE THEORY METHODS (2,624)

☐ COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE (2,014)

more options / values...

Refine

Web of Science [v.5.21] - \ ×

apps.webofknowledge.com/WOS_GeneralSearch_input.do?locale=en_US&errorKey=&viewType=input&SID=1BdX1RuGVCDKCyyrBiL&product=WOS&sear

Apps 　APRESENTAÇÃO DO...　　Sistema hidropônic...　　HIDROPONIA EM P...　　Activate BookDrop　　Organization, Infor...　　Weebly fazer site fre...　　Review of Education...

Web of Science™　InCites™　Journal Citation Reports®　Essential Science Indicators℠　EndNote™　　　　Sign In　Help　English

WEB OF SCIENCE™

THOMSON REUTER

Search　Web of Science™ Core Collection　　　　　　　My Tools　Search History　Marked L

Welcome to the new Web of Science! View a brief tutor

1

Basic Search

Example: oil spill* mediterranean　　　　　　Topic

Click here for tips to
improve your searc

AND　　Example: oil spill* mediterranean　　　　Topic　　　**Search**

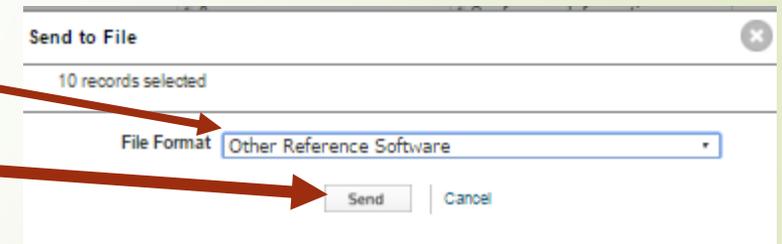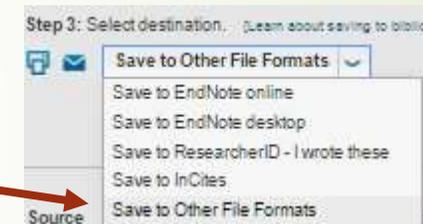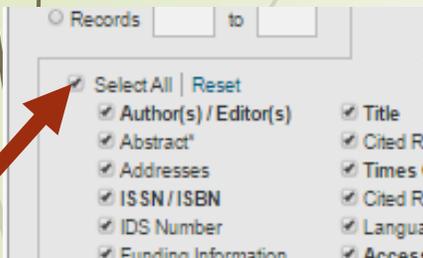+ Add Another Field　|　Reset Form

TIMESPAN

◉　All years

○　From　1900　to　2016

▶ MORE SETTINGS

Export to Histcite

- Go to the Market list

- Delete unwanted papers

- Check "Select all"

- Select "Save to other files formats"

- Select "Other reference software"

- Press "Send" button

Fix the output file (savedrecs.txt) using wordpad

- Change only the first line and then save it to the c:\fakepath folder

  - Replace: FN Thomson Reuters Web of Science™

  - by : FN Thomson Reuters Web of Knowledge™

Install Histcite

- Download the software and install in your computer

- Where to download (PC only)?

  - http://interest.science.thomsonreuters.com/forms/HistCite/

- Create a new folder c:\fakepath where you should store the files exported from Web of knowledge

References

- Wikipedia: https://en.wikipedia.org/wiki/Histcite

- Guide to Histcite - http://garfield.library.upenn.edu/histcomp/guide.html

- **Video tutorials available in youtube channel designed for this presentation**

  - https://www.youtube.com/playlist?list=PLJhGCg6gttFPLQdi0yBLrFzaIf82Nj0SL