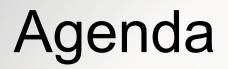


G- FAKULTÄT FÜR MATHEMATIK, INFORMATIK UND STATISTIK ILIANS- INSTITUT FÜR INFORMATIK ISITÄT ARBEITSGRUPPEN MEDIENINFORMATIK UND IEN MENSCH-MASCHINE-INTERAKTION

# Reviewing by Literature



Schaperai Badri, Sandro Kurpiers



I. Literature Resources

II. Conducting a Literature Review

III. Discussion

Reviewing by Literature – Schaperai Badri and Sandro Kurpiers

# Motivation

- Early in their research, most students are advised by their supervisors to "study the literature"
- In the beginning it is often hard to know what this means, and where to start

# Literature Resources

- Books
- Journals
- Conference and Workshop proceedings
- Reports
- Newspapers, Magazines, Radio and TV
- Internet
- Other Resources

### Books

- Textbooks:
  - Useful as introductory sources
  - Give guidance on particular methods or techniques
  - Are aimed to students on taught courses NOT at academic researchers!!
  - Monographs
    - Are aimed at an academic audience (can be cited)
    - Often survey a field in depth and discuss ideas in detail

#### Journals

- There you should find information on the current thinking and research
- Can be useful to start first with journal articels that are themselves a survey of the literature on a particular topic
- Journals containing "refereed" articles are rated more highly than those with non-refereed articles
- Can take two years or more before appearing in print

# **Journal Rankings**

	Literature Vendor (Database)											
Ranked MIS Journals	ProQuest (ABI/INFORM)	Elsevier (ScienceDirect)	NFORMS	IEEE (Comp Soc & Xplore)	Wilson (OmniFile)	Thomson (G. Bus, OneFile)	ACM (Digital Lib)	JR	Blackwell (Synergy)	LEA Journals	EBSCOhost	Free Full Text Web Access
(Based on ISWorld) No. Journal Name	ProC	Else	INF(	EE	Wils	Thor	ACN	JSTOR	Blac	LEA	EBS	Free
1 MIS Quarterly	·	-	-	- ]	✓	$\checkmark$	-	~	-	-	- ]	_
2 Information Systems Research	✓	-	✓	-	-	✓	-	-	-	-	✓	-
3 Communications of the ACM	$\checkmark$	-	-	-	-	$\checkmark$	✓	-	-	-	-	-
4 Management Science	✓	-	✓	-	-	✓	-	✓	-	-	✓	-
5 Journal of MIS	✓	-	-	-	✓	-	-	-	-	-	-	-
6 Artificial Intelligence	-	✓	-	-	-	-	-	-	-	-	-	-
7 Decision Sciences	>	-	-	I	-	-	-	-	$\checkmark$	-	-	-
8 Harvard Business Review	I	I	-	-	I	✓	-	-	-	-	-	-
9 IEEE Transactions (various)	I	I	I	<b>✓</b>	I	-	$\checkmark$	-	-	-	-	-
10 AI Magazine	>	-	-	-	>	✓	-	-	-	1	-	-
11 European Journal of IS	>	-	-	-	-	-	-	-	-	-	-	-
12 Decision Support Systems	1	<b>&gt;</b>	-	-	1	-	-	-	-	-	-	-
13 IEEE Software	I	-	-	>	I	-	-	-	-	-	-	$\checkmark$
14 Information & Management	-	✓	-	-	I	-	-	-	-	-	-	-
15 ACM Transactions on DB Sys	-	-	-	-	-	$\checkmark$	$\checkmark$	-	-	-	-	-

Source: Levvy and Ellis 2006

Other (German) Ranking: VHB Jourqual: http://vhbonline.org/service/jourqual/

#### **Conference and Workshop proceedings**

- There you can find the most up-to-date theories
- Can be difficult for students to know the standard of a conference
- Can be hard to obtain copies of conference and workshop papers

#### Reports

- Market research reports (e.g. by consultancy groups)
- Government reports
- Often difficult to obtain / expensive
- Most of them are not reviewed by objective outsiders
- Always question the interests of the publisher

#### Newspapers, Magazines, Radio and TV

- Can be valuable resources for up-to-date information
- Often easy to access online
- Useful for finding a way into a subject
- Many press and broadcasting organizations are biased politically or geographically
- No peer review

### Internet

- Includes many of the just mentioned resources as a digital copy
- Note that anyone can at any time put material online and offline
- Easy to download tons of material but you also have to read them
- Don't lose yourself in too many links

# **Other Resources**

- Multimedia "literature"
- Gateways (academic portals)
- Resource catalogues and online databases (like: opac)
- Online literature search services (see next Slide)
- People

#### **Selection of Literature Search Services**

- ACM Digital Library: <u>http://dl.acm.org/dl.cfm</u>
- CiteSeerx: <u>http://citeseerx.ist.psu.edu</u>
- EBSCOhost: <u>http://search.ebscohost.com/</u>
- Google Scholar: <u>http://scholar.google.de</u>
- IEEE Xplore: <u>http://ieeexplore.ieee.org/</u>
- IngentaConnect: <u>http://www.ingentaconnect.com/</u>
- JSTOR: <u>http://www.jstor.org/</u>
- Microsoft Academic Search: <u>http://academic.research.microsoft.com/</u>
- Science Direct: <u>http://www.sciencedirect.com/</u>
- Scirus: <u>http://www.scirus.com/</u>
- Web of Knowledge: <u>http://wokinfo.com/</u>
- Base Search: <u>http://www.base-search.net/</u>
- WorldCat: <u>http://www.worldcat.org/</u>









# Summary

wissenschaftliche Zeitschriftenaufsätze

begutachtete Beiträge in Tagungsbänden (Konferenzen)

Monographien (Dissertationen, Fachbücher, etc.)

Herausgeberwerke / Handwörterbücher

Lehrbücher / Sonstige Monographien

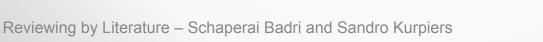
Graue Literatur (Arbeitspapiere, Technical Reports) / Internetquellen

referiert / begutachtet

veröffentlicht

# **Conducting a Literature Review**

- Searching
- Obtaining
- Assessing
- Reading
- Critically evaluating
- Writing a critical review
- Never plagiarize



# Searching

- Initially define some keywords or search terms
- Use search engines and online databases to produce a list of potentially useful references
- Think about your topic and clarify your ideas
- Define your topic in one phrase
- Develop a (new) list of potentially useful references

# Obtaining

Check the catalogue of your library

https://opacplus-ub-uni-muenchen-de.emedien.ub.uni-muenchen.de/

- Use inter-library loan
- LMU students can access a huge range of E-Media for free
- Other university websites can also be helpful

## Assessing

- Assess the credibility of any text that you find
- Questions you can ask yourself about a text: (e.g. book)
  - Is the author someone eminent in the field?
  - Have you heard of the publisher before?
  - Is the publisher a university press?
  - Is the book in a subsequent edition?

- Questions you can ask yourself about a Journal:
  - Is it aimed at academics or practitioners?
  - How long has the Journal existed? (look at the volume number)
  - Does the Journal provide a list of its editorial board and advisors and do these people seem to be of high standing?
  - Does the Journal state clearly its policy for reviewing articles? (Concentrate on articles that are peer reviewed)

- Questions you can ask yourself about conferences and workshops:
  - Is it an academic conference?
  - Is the conference or workshop well established?
  - Does the conference or workshop give details about its programme committee?
  - Does it make clear its reviewing policy or were all papers accepted for presentation?

- Questions you can ask yourself about Internet sources:
  - Does the website make clear who owns it and provide contact details if you want to query something?
  - Does the website seem to be authoritative (e.g. owned by an university or government)?
  - Does the website make clear its purpose, including any disclaimers?
  - Does the website show when it was last updated and is it up-to-date?

# Reading

- Academic reading means to "gut" a text quickly
- If available concentrate first on the abstract
- Look at the section headings
- Usually you find key ideas of a paragraph in the first and last sentences

# **Critically evaluating**

- Evaluate the relevance of a text to your own research
- Are there parts you disagree with?
- Even high quality papers can have omissions

# Recording

- Devise a system to keep track of the material you're reading and evalutating
- Keep note of:
  - A brief summary of the content
  - A brief summary of your evaluation
  - Bibliographic details of literature source (Citavi, EndNote...)
- Backup copies of your electronic datas

# Writing a critical review

- It's not a summary of everything you have read
- It's a discussion of only the material you have read that is directly relevant to your research
- Don't make your review author-centric, but structure around concepts
- Check details of the referencing system you are expected to use

# Plagiarism

- Means that you have used someone else's words or ideas without giving them credit
- Don't Copy/Paste
- Avoid plagiarism by quoting !!

# **Take-Home Messages**

- Wikipedia, Newspapers, Textbooks... provide a good introduction to the subject, but they're not scientific literature
- Use Monographs and (peer reviewed) Journals as scientific sources
- Make a step-by-step structured literature review
- Always evaluate critically

### Discussion

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