

Thesis Structure & Literature Review

Research Seminar

Homework

- Is your master thesis design Science research?
 - If yes: Use your research question for the homework
 - If no: Formulate a design science research question
- 1. What kind of artifact do you want to design
 - construct, model, method, instantiation? (Hevner et al., 2004)
- 2. What is your Research Entry point
 - Based on the DSRM process model (Peffers et al., 2007)
 - Problem-centered initiation, objective-entered solution, design & development centered initiation, client / context initiated
- 3. Design Science Research Knowledge Contribution
 - Routine design, improvement, exaltation, invention (Gregor & Hevner, 2013)
- 4. Framework for Evaluation in Design Science (FEDS)
 - Naturalistic vs. Artificial, Ex Ante vs. Ex Post
 - Possible Evaluation Methods



Thesis Structure

Typical Thesis Structure - Design Science

1. Introduction
2. Theoretical Foundation
3. Related Work
4. Methodology
5. Artifact Description
6. Evaluation
7. Discussion
8. Conclusion

Typical Thesis Structure – Other Methods

Extended IMRaD

- 1.** Introduction
- 2.** Literature
- 3.** Theoretical Framework
- 4.** Methodology
- 5.** Results
- 6.** Discussion
- 7.** Conclusion



Structured Literature Review

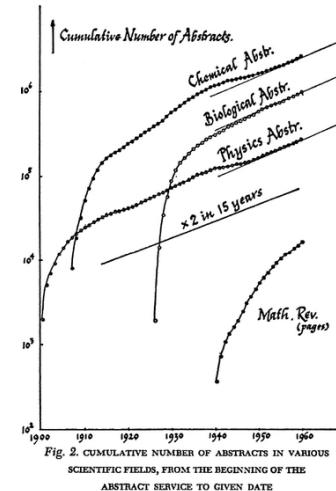
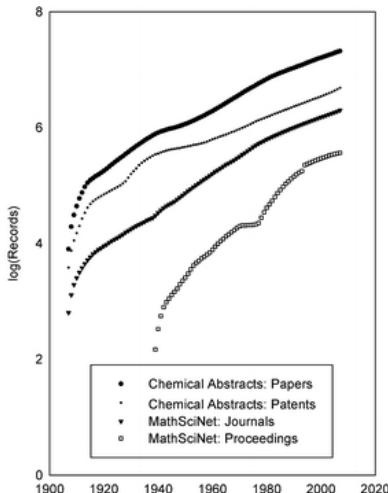
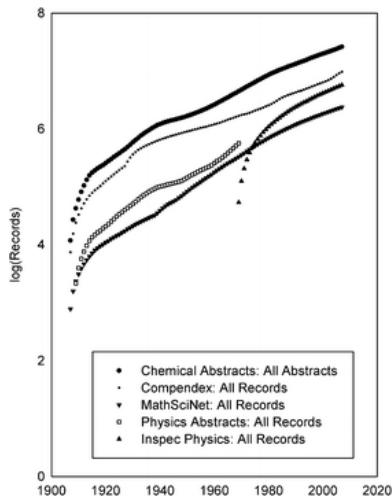
If I have seen further than others, it is
by standing upon the shoulders of giants.

Isaac Newton



Growth of Literature

- It has been estimated that in 2006 about 1,350,000 articles were published in peer-reviewed journals (Björk et al 2008)
- the number of serious scientific journals today most likely is about 24,000



It will be noted that after an initial period of rapid expansion to a stable growth rate, the number of abstracts increases exponentially, doubling in approximately 15 years.

Literature Review

- Common misconception that literature review is just something you have to do
 - Plays a critical role in identifying, refining and focusing research question, theory building and research design
 - Can save a LOT of time and effort

Literature Review

A literature review is a means to an end
and not – as most students think – an
end in itself

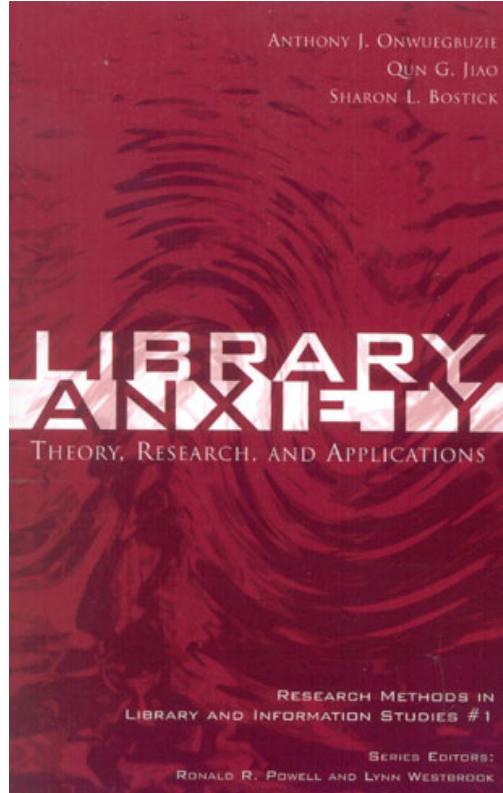
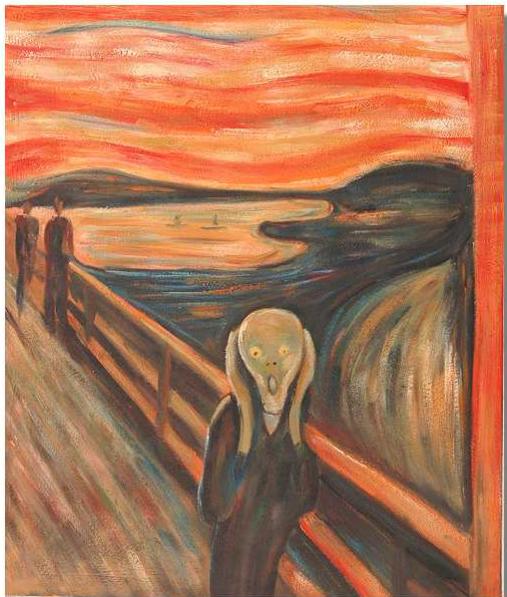
– Robert K. Yin

An Extremely Useful Skill

- One of the most useful skills you will ever learn
 - Impress your defense committee
- Also useful in practice
 - Excellent way to become an expert on a topic overnight

Literature Review

- One of the most crucial steps in research - but one of the most disliked by students

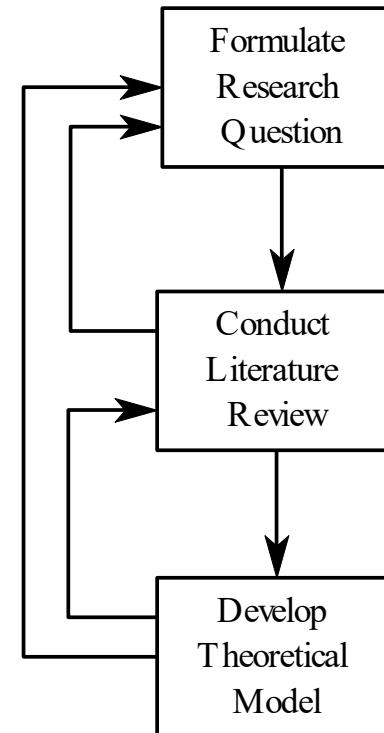


Purpose of Literature Review

- Based on the concept of a “cumulative tradition”:
 - Research is communal: we learn from and build on what others have done rather than working alone
 - One of the major reasons for the progress of science

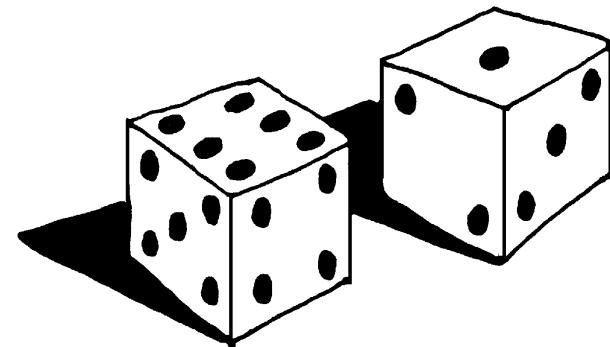
Role of Literature Review in Formulating a Research Question

- Helps to identify what research questions are interesting and important
 - Theoretical significance
 - Practical significance
- Helps to refine and focus research question



Literature Review

- Literature reviews typically done very poorly in the IT research field:
 - Random sampling (first articles found)
 - Biased sampling (articles that support your case)
 - Convenience sampling
(ease of on-line access)

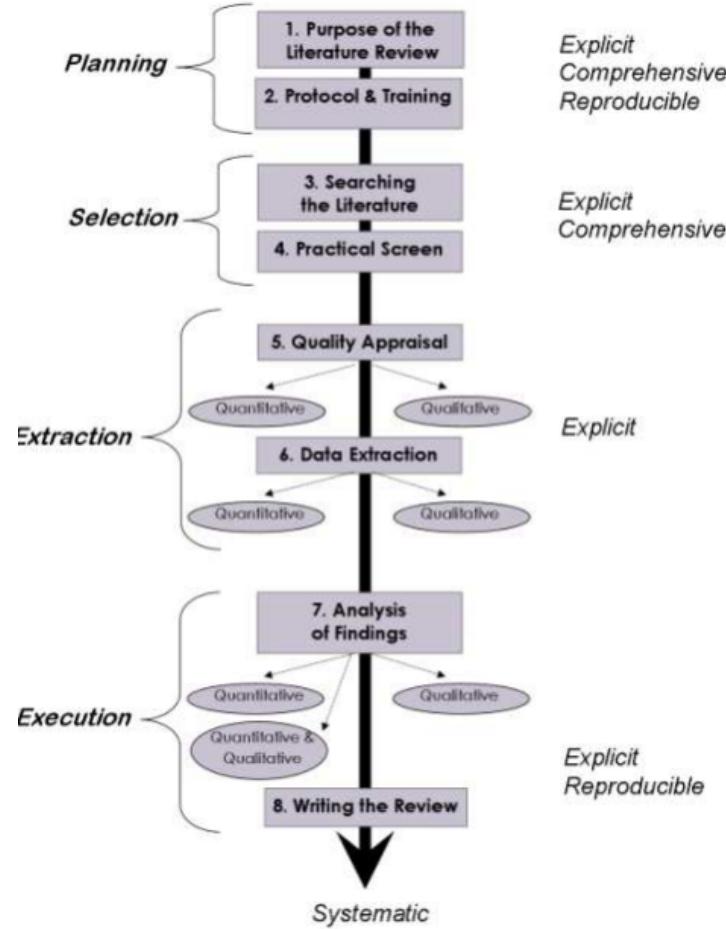


Sampling

- Survey research:
 - choosing representative members of a population to survey
- Literature review:
 - want purposely biased sample: the most important or influential papers
 - Peer-reviewed articles
 - Focus on quality rather than quantity

What is a systematic literature review?

- A **systematic review** is a literature review focused on a research question that tries to identify, appraise, select and synthesize all high quality research evidence relevant to that question



Search terms

- Need to be systematic in choice of search terms
- Many different terms (synonyms) can be used to refer to the same thing
- Generate list of keywords from articles found
- Refine and extend list as you go
- Different word forms:
 - Education, educate, educational
 - Educat*
- Different spelling:
 - Behaviour, behavior
 - Behavio?r

Bottom up Search Strategies

- Top down searching:
 - Search engines + keywords
 - Bottom up searching
- Driven from the literature
 - Forward citation analysis
 - Backward citation analysis

Systematic Search

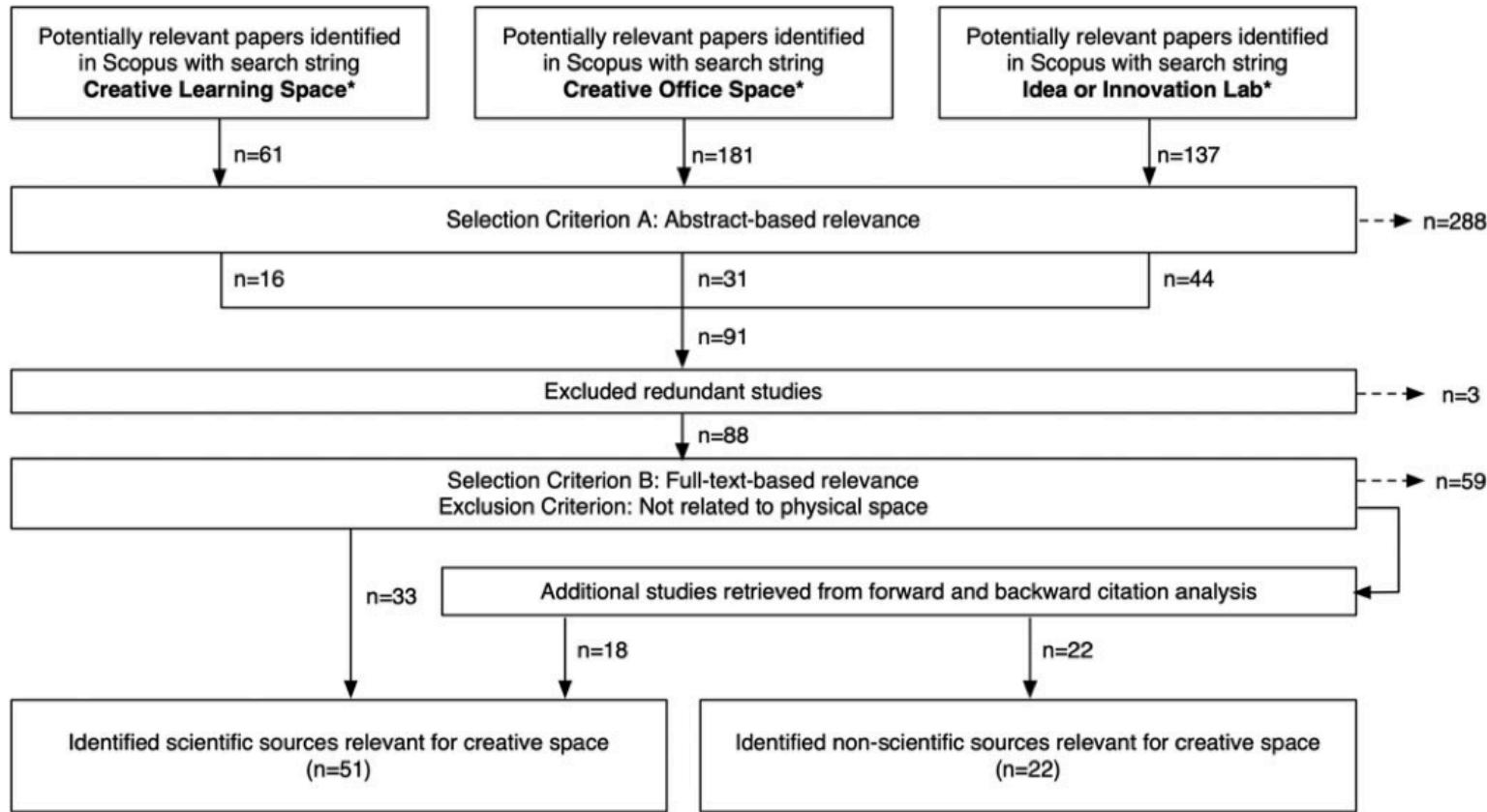
- Always keep track of:
 - Where you search
 - Which search terms you used
 - How many Sources you got
 - Why you included/excluded specific sources for analysis
- Create a visual diagram of your search funnel

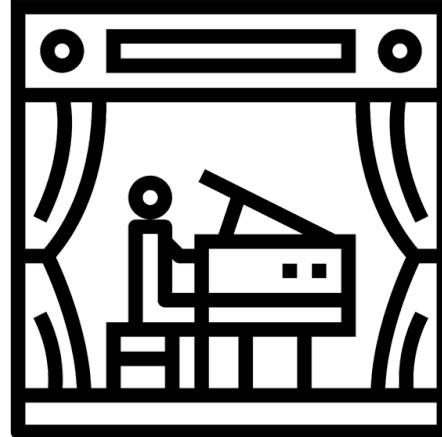
Where to search?

- Databases:
 - HoWeR (HWR Search)
 - EBSCO (mainly Business)
 - Google Scholar (unclear inclusion criteria)
 - Scopus.com (largest database for academic papers)
 - Worldcat.org (mainly books)
 - Web of Science
 - ACM (mainly IT)
 - IEEE (mainly IT)

- Academic Social Networks
 - Researchgate.com

Search Funnel





Presenting the Related Work

Discuss Literature

- Identify Themes, Debates, Gaps
- Find relations between sources
- Possible strategies:
 1. Chronological (makes sense only for historical issues)
 2. Thematic (this is usually the way to go)
 3. Method (makes sense only when your paper is about a method itself)
 4. Theory (similar to thematic; makes sense when introducing new theory)

How NOT to Discuss Literature

- Never discuss literature by just summarizing one paper after the other.
- Paper A says ...
- Paper B analyzed ...
- Paper C did ...
- This is not good practice!

Better:

- Discuss the identified concept or theme first.
 - Then add the references that defined this concept or theme.
-
- "Several sources suggest that data literacy can be learned (Paper A, Paper D)"
 - "According to Paper B, C, and F, understanding data visualization is part of data literacy"

Add a Table or Matrix (optional, but good)

- Discuss the identified concept or theme first.
- Then add the references that defined this concept or theme.
- (makes sense only for a "real" literature review, not for discussing only 5 papers)

Optional (but good): Add a Table

Articles	Concept 1	Concept 2	Concept 3
Paper A	X	X	X
Paper B		X	
Paper C	X	X	
Paper D		X	X

Optional (but good): Add a Table

STUDY	SUBJECTS USED	INDEPENDENT VARIABLE	TASK	DEPENDENT VARIABLES
Juhn and Naumann (1985)	End users	Representation Method (LDS, ER, DAD, RM)	Comprehension	Comprehension accuracy
Jarvenpaa and Machesky (1986)	Analysts	Representation Method (LDS, relational)	Modelling	Comprehension accuracy
Shoval and Even-Chaime (1987)	Analysts	Representation Method (Relational, NIAM)	Database design	Database design quality Time Preference
Leithheiser (1988)	End users	Representation Method (LDS, relational)	Comprehension Recall Problem solving Query writing	Time Recall performance Problem solving performance Query writing performance

Optional (but good): Add a Table

QUALITY FRAMEWORK	LEVEL OF GENERALITY	SCOPE	ORIGIN	EMPIRICAL VALIDATION
Martin, 1990 [76]	IE models (various)	All	P	None
Barker, 1990 [7]	ER models	All	P	None
von Halle, 1991 [118]	ER models	All	P	None
Batini et al, 1992 [9]	EER models	All	R	None
Veryard, 1992 [117]	ER models	All	P	None
Zamperoni and Lohr-Richter, 1993 [132]	Data models	All	R	None
Marche, 1993 [73]	Data models	Stability	R	Case study [73]
Lindland et al, 1994 [59, 60, 61, 69, 94]	All	All	R	Laboratory experiments [88, 93]

Synthesis

- Evaluate quality of studies: identify strengths and weaknesses
- Identify points of agreement, disagreement, conflicting results, unanswered questions
- Unused methods, under-researched problems



Plagiarism



Be careful with Plagiarism!

- Plagiarism is using others' ideas and words without clearly acknowledging the source of that information.
- To avoid plagiarism, you must give credit whenever you use...
 - another person's idea, opinion, or theory
 - any facts, writings, statistics, graphs, drawings — any pieces of information — that are not common knowledge
 - quotations of another person's actual spoken or written words
 - paraphrasing of another person's spoken or written words.
- Using of figures of other papers
 - If it is a diagram → rebuilding it so that all figures have a similar style
 - Add citation in the caption of the figure
- Add citation at the end of the sentence, not just at the end of the paragraph

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Literature Management Systems

Organize your Sources in Zotero

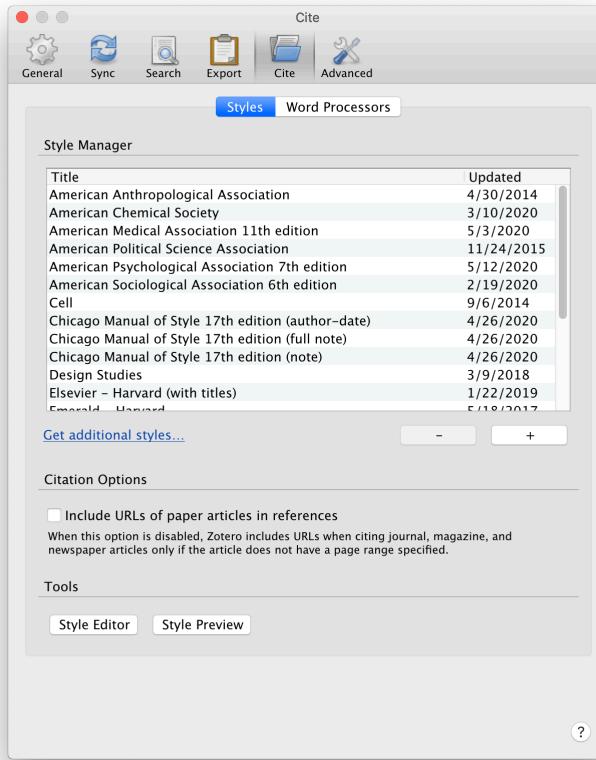
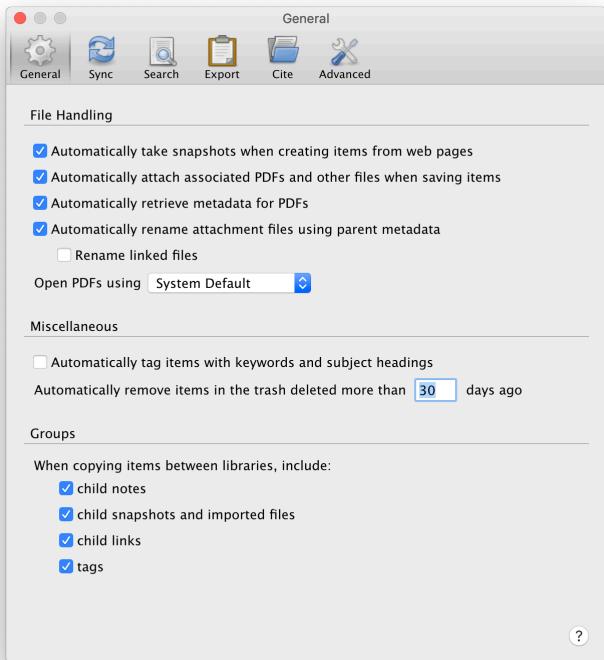
- Zotero is free (fees only apply when using a lot of storage in shared groups)
- Zotero is Platform independent
- Zotero can be used with Word, Open Office, Libre Office, and Google Docs
- Zotero is awesome!

Organize your Sources in Zotero

- Install App and Browser Plugin
- and Word Connector (should work automatically, if not set Preferences)

- Set specific Preferences in Zotero

Zotero Preferences



Organize your Sources in Zotero

- Create a Folder Structure
- Add your sources to several folders
- Create sub folders
- Add the required information for each item
- Assign Tags

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Title	Creator	Year	Publication	Vol...	Is...	Date Added
Extracting Causal Relationships from PubMed	Giles	2017		1/12/2014, 7...		1/18/2014, 8...
25+ Years of Business Intelligence and Analyti...	Marijanovic and Dinter	2017				
A tool for addressing construct identity in liter...	Larsen and Bong	2016	MIS Quarterly	40	3	2/16/2017, 1...
Training and evaluation corpora for the extract...	Fluck et al.	2016	Database: The Journal of Biologic...	2016		2/16/2017, 1...
RJMS-P.2.0: a generalizable rule-based infor...	Torii et al.	2015	IEEE/ACM Transactions on Comput...	12	1	2/16/2017, 1...
Extracting answers from causal mechanisms in ...	Sobrino et al.	2014	Neurocomputing	135		7/3/2014, 1...
Theory Identity: A Machine-Learning Appro...	Larsen et al.	2014	2014 47th Hawaii International C...			8/26/2014, 1...
IBM Sees Broader Role for Watson in Aiding ...	Clark	2014	WSJ Blogs - Digit...			8/29/2014, 8...
Creating a natural language summary from a c...	Puente et al.	2013	IFSA World Congress and NAFIPS ...			7/3/2014, 12...
Explain in scientific discourse	Overton	2013	Synthesis	190	8	11/4/2013, 8...
Using Computer-Aided Text Analysis to Elevat...	McKenny et al.	2013	Organizational Research Methods	16	1	8/5/2013, 4...
A meta-theoretic approach to theory integrati...	Hovorka et al.	2013	System Sciences (HICSS), 2013 46...			2/16/2017, 1...
The Hegelian Inquiry System: Improving the Metho...	Hamelers	2013	ASIST			11/14/2013, ...
Automatically Assigning Research Methods to J...	Eckle-Kohler et al.	2013				1/25/2014, 1...
Extracting Causal Relations between News Top...	Ackerman	2013				3/10/2014, 5...
Mining Causal Relations and Concepts in Mariti...	Tirunagari et al.	2012	International Journal of Innovative ...	1	10	9/15/2013, 9...
Learning Causality for News Events Prediction	Radinsky et al.	2012	Proceedings of the 21st Internatio...			11/14/2013, ...
The Hegelian Inquiry System: An Improvement ...	Middleches	2012				11/14/2013, ...
Method mention extraction from scientific res...	Mercer	2012	Proceedings of COLING 2012			1/12/2014, 7...
Data Analytics Using Ontologies of Managemen...	Kim et al.	2012	Available at SSRN 2138121			11/14/2013, ...
Visualizing the core-periphery distinction in th...	Hovorka et al.	2012	ACIS 2012: Location, location, loc...			8/26/2014, 1...
Pattern for python	De Smedt and Daemelans	2012	The Journal of Machine Learning ...	13		9/15/2013, 9...
AutoBayesian: developing bayesian networks b...	Raghuram et al.	2012	Database Systems for Advanced ...			1/12/2014, 6...
From Text Documents to Causal Mechanisms	Puente et al.	2011	Proc. of the 2011 International Co...			2/16/2017, 1...
Establishing Nomological Networks for Behavio...	Li and Larsen	2011	ICIS 2011 Proceedings			11/29/2011, ...
Causality and imperfect causality from texts: A...	Sobrino et al.	2010	2010 IEEE International Conferenc...			7/3/2014, 1...
Another look at causality: Discovering scenario...	Riaz and Girju	2010	Semantic Computing (ICSC), 2010...			11/4/2013, 8...
Extraction, analysis and representation of imp...	Puente et al.	2010	Fuzzy Systems (FUZZ), 2010 IEEE I...			11/14/2013, ...
Extraction, analysis and representation of imp...	Puente et al.	2010	2010 IEEE International Conference...			7/12/2014, 6...
Toward Social Causality: An Analysis of Interpe...	Girju	2010	Urbana	51		11/4/2013, 8...
Prototype software framework for causal text ...	de Vries	2010				11/14/2013, ...
Cause identification from aviation safety incide...	Abedin et al.	2010	Journal of Artificial Intelligence Re...	38	1	11/14/2013, ...
Extraction of Conditional and Causal Sentence...	Puente et al.	2010	Journal of Artificial Intelligence Rese...			7/12/2014, 6...
Conceptual convergences: Positioning informa...	Hovorka et al.	2009	Flexible Query Answering Systems			6/29/2014, 9...
NLP-NC—A new NLP system for biomedical te...	Furtelle et al.	2009				
Extraction of causal-association networks fro...	Bojudí	2009	Bioinformatics and Biomedicine W...			9/15/2013, 9...
Using a bigram event model to predict causal ...	Beamer and Girju	2009	Master's Theses and Project Reports			11/14/2013, ...
Determining causal and non-causal relationships	van der Horn et al.	2009	Computational Linguistics and Int...			11/4/2013, 8...
Utilizing compression and refinement to handl...	van der Braak et al.	2008	Proceedings of the Workshop on ...			1/1/2011, 5...
Connective-based local coherence analysis: a lo...	Stede	2008	ECAI-08 Workshop on Computati...			1/12/2014, 6...
Analysis, detection and classification of certain...	Puente and Olivas	2008	Proceedings of the 2008 Conferen...			1/1/2011, 5...
Global Dynamics Network Construction from t...	Perrin et al.	2008	Proceedings of the 12th Internati...	8		7/12/2014, 6...
Extracting information from textual document...	Meystre et al.	2008	International Workshop on Inform...			3/10/2014, 5...
Causal Relation Extraction	Ploos et al.	2008	Yearb Med Inform	35		1/25/2014, 1...
		2008	IAPC			11/14/2013

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- Different Icons mean different types of sources
- Books, Conference Papers, Blog Post, Journal Articles, etc.
- This is important because different types of sources will have to be formatted differently in your text

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SpatialQuality-Culture-Chan...
SpatialQuality-Knowledge
SpatialQuality-Process
SpatialQuality-Social Interacti...
SpatialQuality-Stimulation
Teams+Co-Creation
Technology
Theory
TheoryOfCreativeSpace
Tools
Virtual Space
Visualization
VisualTools
Wellbeina
Operations
New Item
Edit
Import
Export
Search

Title	Creator	Date	Date Added
The professional stranger: an informal introduction to ...	Agar	1...	1/6/2014, 11:...
Action research	Avison et al.	1...	12/28/2016, 3:...
Qualitative research methods for the social sciences	Berg et al.	2...	5/24/2015, 10:...
Playful Probing: Making Probing More Fun	Bernhaupt et al.	2...	1/11/2014, 4:...
Grounded theory: a practical guide	Birks and Mills	2...	1/6/2014, 11:...
How HCI Interprets the Probes	Boehner et al.	2...	1/11/2014, 4:...
Analysis in qualitative research	Boeije	2...	6/9/2019, 10:...
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Being proactive: where action research meets design re... Visual Anthropology: Photography as a Research Method	Cole et al. Collier and Collier	2... 1...	12/28/2016, 3:... 6/8/2019, 10:...
Research Design: Qualitative, Quantitative, and Mixed ... Chapter 5 – Design Cognition: Results from Protocol an...	Creswell Cross	2... 2...	6/16/2014, 12:... 3/5/2020, 12:...
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Mail and internet surveys: the tailored design method Internet, mail, and mixed-mode surveys: the tailored d...	Dillman Dillman et al.	2... 2...	1/14/2014, 8:... 6/9/2019, 11:...
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The focus group research handbook Theory Building from Cases: Opportunities and Challen...	Edmunds Eisenhardt and Graebner	1... 0...	5/30/2015, 11:... 2/25/2019, 9:...
Protocol analysis: Verbal reports as data Ethnography: step by step	Ericsson and Simon Fetterman	1... 1...	3/5/2020, 12:... 1/6/2014, 11:...
The equivalence of weighted kappa and the intraclass c... Top IS research on quality of transaction standards: A s...	Fleiss and Cohen Folmer et al.	1... 2...	6/9/2019, 3:... 9/24/2017, 12:...
Artefaktanalyse Artefact Analysis in Organisational Research	Froschauer Froschauer and Lueger	2... 2...	1/29/2019, 6:... 1/29/2019, 6:...
Cultural probes and the value of uncertainty Design: Cultural probes	Gaver et al. Gaver et al.	2... 1...	9/30/2013, 3:... 9/30/2013, 3:...
Quality perceptions of design journals: The design sch... The SAGE Encyclopedia of Qualitative Research Methods	Gemser et al. Given	1... 1...	12/28/2013, 1:... 9/4/2015, 11:...
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Understanding Reliability and Validity in Qualitative Res... Linkography: unfolding the design process	Golafshani Goldschmidt	2... 2...	5/7/2019, 4:... 6/9/2019, 11:...
How probes work The nature of theory in information systems	Graham et al. Gregor	2... 2...	12/28/2013, 1:... 1/3/2014, 11:...
Probing user values in the home environment within a t...	Haines et al.	2...	12/28/2013, 1:...

Info
Notes
Tags
Related

Item Type: Book
 Title: The craft of research
 Author: Booth, Wayne C
 Author: Colomb, Gregory G
 Author: Williams, Joseph M
 (...) Abstract: "Here's a concise, practical guide to mast...
 Series Number:
 Volume:
 # of Volumes:
 Edition:
 Place: Chicago
 Publisher: University of Chicago Press
 Date: 1995
 # of Pages:
 Language: English
 ISBN: 0-226-06583-9 978-0-226-06583-0
 0-226-06584-7 978-0-226-06584-7
 Short Title:
 URL:
 Accessed:
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SpatialQuality-Knowledge
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SpatialQuality-Stimulation
Teams+Co-Creation
Technology
Theory
TheoryOfCreativeSpace
Tools
Virtual Space
Visualization
VisualTools
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Title Creator Date Added

The professional stranger: an informal introduction to ...	Agar	1/6/2014, 11:...
Action research	Avison et al.	1/28/2016, 3:...
Qualitative research methods for the social sciences	Berg et al.	5/24/2015, 10:...
Playful Probing: Making Probing More Fun	Bernhaupt et al.	1/11/2014, 4:...
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How HCI Interprets the Probes	Boehner et al.	1/11/2014, 4:...
Analysis in qualitative research	Boeije	6/9/2019, 10:...
The craft of research	Booth et al.	1/6/2014, 12:...
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Being proactive: where action research meets design re... <td>Cole et al.</td> <td>12/28/2016, 3:...</td>	Cole et al.	12/28/2016, 3:...
Visual Anthropology: Photography as a Research Method	Collier and Collier	6/8/2019, 10:...
Research Design: Qualitative, Quantitative, and Mixed ...	Creswell	6/16/2014, 12:...
Chapter 5 – Design Cognition: Results from Protocol an...	Cross	3/5/2020, 12:...
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Internet, mail, and mixed-mode surveys: the tailored d...	Dillman et al.	6/9/2019, 11:...
The effect of abductive reasoning on concept selection ...	Dong et al.	1/31/2020, 1:...
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Protocol analysis: Verbal reports as data	Ericsson and Simon	3/5/2020, 12:...
Ethnography: step by step	Fetterman	1/6/2014, 11:...
The equivalence of weighted kappa and the intraclass c...	Fleiss and Cohen	6/9/2019, 3:...
Top IS research on quality of transaction standards: A s...	Folmer et al.	9/24/2017, 12:...
Artefaktanalyse	Froschauer	1/29/2019, 6:...
Artefact Analysis in Organisational Research	Froschauer and Lueger	1/29/2019, 6:...
Cultural probes and the value of uncertainty	Gaver et al.	9/30/2013, 3:...
Design: Cultural probes	Gaver et al.	9/30/2013, 3:...
Quality perceptions of design journals: The design sch...	Gemser et al.	12/28/2013, 1:...
The SAGE Encyclopedia of Qualitative Research Methods	Given	9/4/2015, 11:...
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Probing user values in the home environment within a t...	Haines et al.	12/28/2013, 1:...

Info Tags Tags Related

Item Type Journal Article
Title Mixing methods: The entry of qualitative and quantitative approaches into the research process
Author Brannen, Julia
Abstract
Publication International Journal of Social Research Methodology
Volume 8
Issue 3
Pages 173-184
Date 2005
Series
Series Title
Series Text
Journal Abbr
Language
DOI
ISSN
Short Title Mixing methods
URL <http://www.tandfonline.com/doi/abs/10.1080/14693513.2005.9521152>
Accessed 6/16/2014, 12:43:26 AM
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Author Cross, Nigel
Editor Eastman, Charles M.
Editor McCracken, W. Michael
Editor Newstetter, Wendy C.
Abstract This chapter reviews protocol and other ...
Book Title Design Knowing and Learning: Cognition in Design Education
Series
Series Number
Volume
of Volumes
Edition
Place Oxford
Publisher Elsevier Science
Date January 1, 2001
Pages 79-103
Language en
ISBN 978-0-08-043868-9
Short Title Chapter 5 – Design Cognition
URL http://www.sciencedirect.com/science/a...
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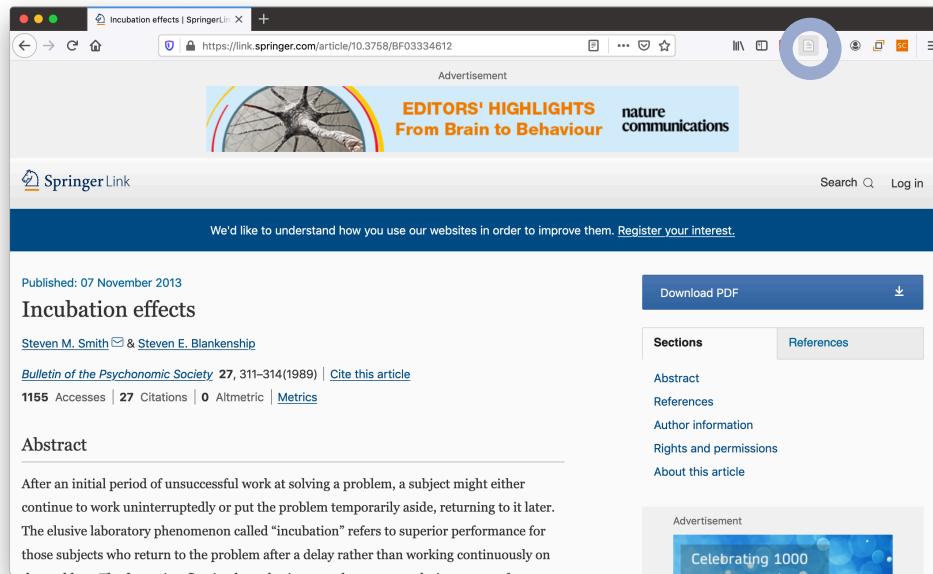
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Abstract A leading M.I.T. social scientist and cons...
Series
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Volume
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Edition
Place New York
Publisher Basic Books
Date 23. September 1984
of Pages 384
Language Englisch
ISBN 978-0-465-06878-4
Short Title The Reflective Practitioner
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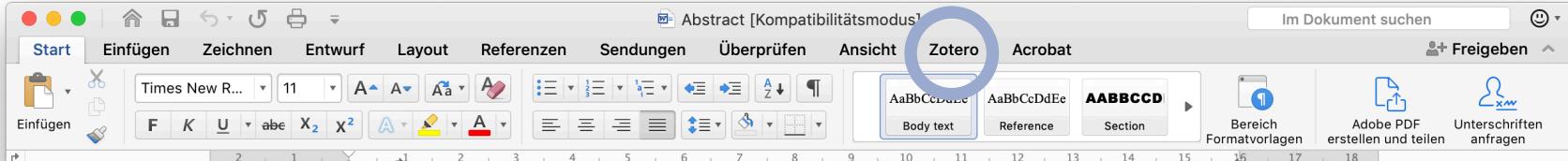
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Item Type Journal Article
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Author Lau, Francis
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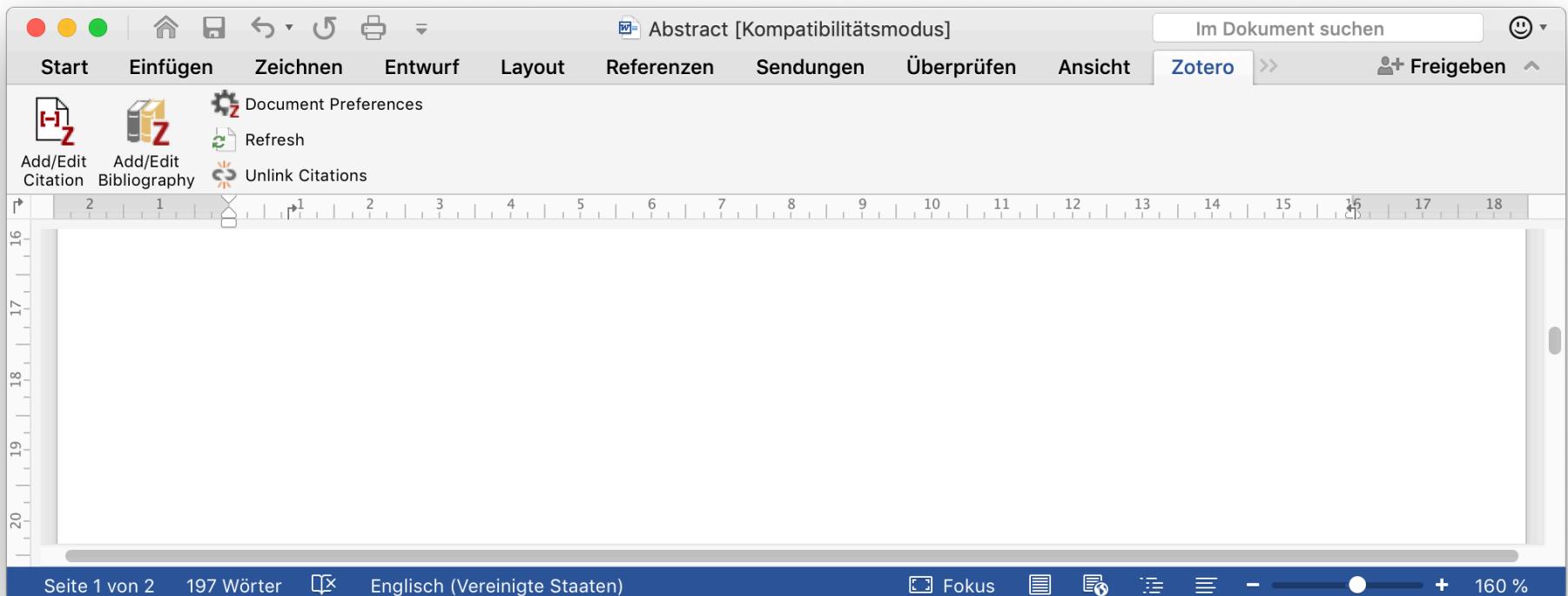
EXTENDED ABSTRACT

Write your text here.

Approximately 500–1000 words

Use the following structure (without numbering):

- Background (including relevant references)



Abstract [Kompatibilitätsmodus] Im Dokument suchen

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Use the following structure (without numbering):
– Background (including relevant references)
– Research Question
– Methodology
– Hint about Results
– Relevance, Contribution

Simon, 1996

Add selected references.
Use Harvard Style with Titles.

This is an example Reference:
Simon (1996) introduced the concept of Design as a research discipline.
Cultural Probes are a research method for participants' self-documentation (Gaver et al., 1999)

22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

REFERENCES



Simon, 1996

The sciences of the artificial

Simon (1996), MIT Press: Cambridge, MA.

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These are some example References:

Simon (1996) introduced the concept of Design as a research discipline.
Cultural Probes are a research method for participants' self-documentation (Gaver et al., 1999)
The Reflective Practitioner (Schön, 1999). (Csikszentmihalyi, 1990) Albers et al. (2018).

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Gaver, W., Dunne, T., Pacenti, E., 1999. Design: Cultural probes. *interactions* 6, 21–29. <https://doi.org/10.1145/291224.291235>

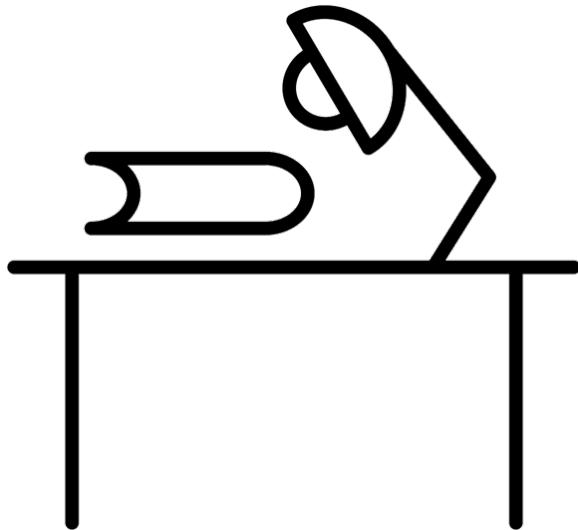
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Simon, H.A., 1996. *The sciences of the artificial*, 3rd ed. MIT Press, Cambridge, MA.

Seite 1 von 2 197 Wörter Englisch (Vereinigte Staaten)

Fokus

160 %



Homework

Homework

- Create your master thesis proposal
- Mandatory parts:
 - Title
 - Motivation
 - Practical Relevance
 - Theoretical Relevance
 - Research Question
 - Research Method
 - Arguments for your research method choice
 - First initial research method design
 - Literature Review Design
 - Literature Search Strategy
 - Search Terms
 - Maybe first results (optional)
 - Thesis Structure
 - Timeline
 - Deadline 2 week