Navigating Scientific Resources & Staying Organized





Navigating Scientific Resources & Staying Organized

Making It Easier to Write a Ph.D. Dissertation, Article, or Proposal

March 2023

Barbora Šátková, Klára Hutková

Which University Are You from?

- A. Czech Technical University in Prague
- B. University of Chemistry and Technology Prague
- C. Czech University of Life Sciences Prague
- D. Charles University
- E. Other



- 1. Searching: Introduction
- 2. Google Scholar
- 3. Library Resources & Full Text Access
- 4. Types of Sources
- 5. Reading & Organizing Sources
- 6. Publishing and Presenting of the Outputs

1.SEARCHING: INTRODUCTION

Keywords (for Searching)

- Which keywords in your subject area are used by other authors?
- Is there a thesaurus/dictionary for your field?
 - MeSH (Medical Subject Headings)
 - IEEE Thesaurus and Taxonomy
 - o Mathematics Subject Classification
 - <u>The Transportation Research Thesaurus</u>
 <u>INSPEC Thesaurus</u> (after login)
- Other useful tools:
 - <u>Wikipedia</u> (translation of terms, fact checking,...)
 - o <u>Google Scholar</u>

Affective comp	uting
BT:	Artificial
intelligence	
	Human computer
interaction	
RT:	Behavioral sciences
	Cognitive systems
	Emotion recognition
	Human factors
	Psychology

Which of These Techniques Do You Use Most Often when Searching?

- A. AND, OR, NOT/-
- B. Phrase searching ("")
- C. Truncation (*/?/...)
- D. Advanced search & filters (search engine tools)
- E. None of the above

Database Search Tips

• AND, OR, NOT/-



- Phrase searching
- Truncation
- Filters
- Advanced search

o (author, title, abstract, full text, other)

■



Where Do You Go First when Searching for Information Related to Your Writing?

- A. Google
- B. Google Scholar
- C. University Library Searching Tool ("Discovery")
- D. Web of Science or Scopus search
- E. Article databases (Elsevier, Nature, EBSCO, Springer, IEEE, ScienceDirect, and others provided by libraries) or open access full-text and pre-print collections (such as arXiv, PubMed, ResearchGate, repositories)

Search Tools for Scientific Resources

- Search engines
 - o Google Scholar
 - Library discovery tool (<u>NTK</u>, <u>chemTK</u>, <u>CTU</u>)

...searching through multiple databases and collections mentioned below

- Article/book databases
 - Paid databases (eg. IEEE, ScienceDirect, see library subscribed databases)
 - Open databases and journals (eg. <u>DOAJ</u>, <u>PubMed Central</u> and <u>others</u>)
- Preprint collections on servers as <u>arXiv</u>, <u>ResearchGate</u>, <u>Academia.edu</u> or <u>institutional repositories</u>
- **Citation databases** <u>Web of Science</u> and <u>Scopus</u> (no full text, but links to full text)
- & P2P servers as Sci-Hub, LibGen, Ulož.to

Using ChatGPT as a Search Tool?



- Al-powered <u>chatbot</u>, <u>Large Language Model</u> (LLM)
- Ability to analyse large amounts of data and generate text based on probability
- Released by <u>OpenAl</u> in November 2022
- Similar tools exist (released or in testing-phase): <u>Bing</u> and <u>Edge Search</u> (Microsoft),
 <u>Bard</u> (via <u>LaMDA</u> by Google), <u>Ernie Bot</u> (<u>Baidu</u>), and others
- Outputs: e.g., essays, poems, recipes, code, music, lists of sources (?)
- Ongoing debate about it's use in academia, esp. research integrity & ethics
- Errors: some obvious, others not (<u>hallucination</u> = confident wrong answer)
- Searching for academic resources currently not its strong suit

ChatGPT Example of a ChatGPT Search We'd love your feedback! This system is optimized for dialogue. Let us know if a particular response was good or unhelpful. Give me a list of eight most highly cited academic resources on quantum mechanics and string theory. Provide full bibliographic detail for each with hyperlinks to the resources (DOI or other stable URL, if possible). Share your feedback in our Discord server. Back Done Certainly! Here are eight highly cited academic resources on quantum mechanics and string \$ < 2/2 theory, including journal articles and books, along with their full bibliographic details and Published: 14 July 1988 stable URLs: The potential of vorticity 1. "A Brief History of Time" by Stephen Hawking (1988). This seminal book explores the history of physics and the universe, including key concepts in quantum mechanics and Thomas Keffer relativity. DOI: https://doi.org/10.1038/334105a0 Nature 334, 105–106 (1988) Cite this article 2. "Black Holes and Information Loss" by Stephen Hawking (2005). This influential paper **Ctavipicker** discusses the problem of information loss in black holes, which has implications for both Mendele quantum mechanics and general relativity. DOI: Information loss in black holes https://doi.org/10.1103/PhysRevD.72.084013 S. W. Hawking \odot Phys. Rev. D 72, 084013 - Published 18 October 2005 An article within the collection: The Work of Stephen Hawking in Physical Review

Do you want to try a ChatGPT Search?



- ChatGPT's abilities may defer from field to field & it is constantly learning
- You can try searching for a topic you know well using the following tips:
 - Try different commands:
 - "seminal/highly cited"
 - sources/articles/books/publications
 - "provide full bibliographic detail"
 - "provide DOI or stable URL"
 - Try reloading the conversation if you are not happy with the results or if it crashes
 - You can compare the search results to those in other databases (Scopus, WoS)
 - o But do not rely on the results

2. GOOGLE SCHOLAR

Library Links



Library Links Setting





≡ Google Scholar	Search results	Collections	
Articles Case law	Languages Library links Account Button	 Search articles (include patents). Search case law. 	
Profiles		Results per page	Show library access links for (choose up to five libraries):
My profile		10	e praze Q e.g., Harvard
My library		Where results open	 ✓ National Library of Technology - Full text @ NTK ✓ Státní technická knihovna - Získat v STK ✓ Masaryk University - Get Fulltext at MU ✓ Vysoká škola chemicko-technologická - Získat přes VŠCHT (SFX)
Alerts		Open each selected result in a new browser window	 ✓ Czech University of Life Sciences Prague - Získat full text Czech National Library - Full-text @ NKP (JIB) Museum of Decorative Arts in Prague - Get it @ UPM via ART SG
Metrics		Bibliography manager	 Městská knihovna v Praze - Získat v MKP Národní lékařská knihovna v Praze, ČR - Plný text v NLK Vysoká škola ekonomická v Praze (Prague University of Econom - Full-Text @ VŠE Mestska knihovna v Praze - ProQuest Fulltext
Advanced search		 Don't show any citation import links. Show links to import citations into BibTeX \$. 	Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your
Settings			library's website or ask a local librarian for assistance.

Google Scholar Button



• Browser extension (<u>Chrome</u>, <u>Firefox</u>, <u>Opera</u>)

	Google Scholar	Settings	
63	Articles Case law Profiles	Search results Languages Library links Account Button	Scholar Button for your browser https://www.example.edu/paper.pdf Bibliography Q [PDF] "Cite"
*	My profile My library Alerts Metrics		 Einstein, A., B. Podolsky, and N. Rosen, 1935, "Can quantum-mechanical description of physical reality be considered complete?", Phys. Rev. 47, 777-780. Install Scholar Button to look up papers as you browse.
Q*	Advanced search		Save Cancel
\$	Settings		

Google Scholar Button

Quick access to full text & citations download



Google Scholar Tips & Tricks

- Library links
- Citation management tools /
- Google Scholar Button
- Google Scholar Alerts
- Google Scholar Account
 - GS author profile
 - My library

Don't show any citation import links			
Show links to import citations into	BibTeX		
	EndNote		
	Endivote		
	RefMan		
	RefWorks	Save	Cancel
	Reimons		

Google Scholar		
Alerts		
Alerts for chodounska.alena@gmail.com		
"professional development" "academic library" "case study" - new results	Show up to 10 results	CANCEL
"information behavior" AND undergraduates AND library - new results	Show up to 10 results	CANCEL
CREATE ALERT		

Google Tips & Tricks

- Find the **name of the person** you are citing (especially when you are writing in Czech)
- Find pictures under open licence

Q AII	🖾 Images	▶ Videos	Shopping	E News	: More	Settings Tools
Size 👻 🖸 C	olor 👻 Type	▼ Time ▼	Usage Rights 4	▲		
		✓ C	II Creative Commor Commercial & oth			

site:cvut.cz dissertation (all pages with keyword "dissertation" on domain "cvut.cz")

→ More Tips & Tricks on Google

3. LIBRARY RESOURCES & FULL-TEXT ACCESS

Library Discovery Tools

NTK	Search Our Collections	All 🗸 🔍
50°6'14.083"N, 14°23'26.365"E Národní technická knihovna National Library of Technology	Or browse: Catalog, eBook Search, Journal Search, All eResources, 🥑	
https://www.techlib.cz/er	<u>n/</u>	
chem™	Search Our Collections	All 🗸 🖸
UICIII		~

https://www.chemtk.cz/en/

Keyword	resources of Charles University - UKAŽ Enter any words	×	Search	?
Search Options	Basic Search Advanced Search Search History			

https://ukaz.cuni.cz



- One box for searching across all journals and books (both electronic and print) provided by the library (items from databases like IEEE, ScienceDirect, EBSCO, ProQuest, and more)
- Advanced searching options
- Advanced filtering
- Library print collection included

http://knihovna.cvut.cz/en/#summon



Searching @ NTK

- NTK discovery tool
- Browse/find eBooks and eJournals
- Specific databases and electronic collections
- Access to full text
- Document delivery / interlibrary loan

Electronic resources accessible from home

Direct Access to **Databases** and **Collections Provided by** NTK

ΝΤΚ	Sear	ch Our Collections			2
50°6'14.083"N, 14°23'26.365"E Národní technická knihovna	Or brow	wse: Catalog, eBook Search, Jo	ournal Search, All eResources 🥑		
National Library of Technology			The second s		
What We Have -	Services & Support	- Culture & Events -	Who We Are - Projects	& Innovation +	Search NTK page
Homepage / What We H	Have / eResources				
Electronic Re					
Electronic Re	esources				CZECH
Most of these eResource	es can be accessed out	tside the library. To search a	a specific database, select <i>via N</i>	7 <i>K</i> . To I	Member of 📙
		Our Collections box above.			
	1				Contacts
Use filters to find reso	ources relevant to a par	ticular subject, in a particul	ar format, or by language.		Contacts
					eResources Acquisition
		_			eiz@techlib.cz
Title	Access	Description	Search and Filters		(+420) 232 002 572
Academic Search	via NTK	Description	Type to filter		eResources Administrat
Ultimate			Type to filter		eservices@techlib.c
AccessScience New	via NTK	Description			See also
		Description	RESOURCE TYPE		See also
ACM Digital Library	via NTK	Description	CONTENT TYPE		 Subject Guides
	Open access	Description	ACCESS		eBooks A-Z
American Institute of		Description	CONTENT LANGUAG	E	 eJournals A-Z
American Institute of Physics - Complete	via NTK	Description			 Remote Access Access & Privileges
					 Interlibrary Loan and
Analytical Abstracts	via NTK	Description			Document Delivery
Anopress IT	Workstations in the	Description			 Suggest a purchase
niopicaa ii	library	Description			Reference and Researce
					 Library Rules
					-
Apress	via NTK	Description			Catalog Scientific resources for

Getting Full Text (when Sci-Hub is down) ;-)

- 1. Always make sure you are logged onto the library website for **off-campus access**
- 2. Activate Library links on Google Scholar
- 3. Use tools on library web page



eJournals	eArticles	eBooks
 Journal Search Search for journal title or ISSN 	 Discovery tool "Phrase search" of article title Supplement with name of one author for better accuracy 	 Discovery tool "Phrase search" of book title Supplement with name of one author for better accuracy <u>Book Search</u> Search for book title, ISBN, or author

Getting Full Text: Other Options

International ILL Order Form	for individual NTK patrons
You wish to get \star	A loanA copy
Name *	
Address in the Czech * Republic - Street	
Address - City *	
Zip Code \star	
Email *	
Phone	
Your status *	 Scholar / Scientist / Researcher Doctoral Student Student Other
Purpose of this order *	 Research Teaching Studies Other

For materials that are not available online:

- Use <u>ILL form</u> (Interlibrary Loan)
- Ask for assistance: info@techlib.cz

https://www.techlib.cz/en/83429-international-ill-order-form

4. TYPES OF SOURCES

Handbooks, Textbooks, & Encyclopedias

• To get familiar with terminology and context for a new project

Greywater	Contents	
Reuse	Prefacexi Authorsxiii Introductionxv	1.3.3 Washbasins 30 1.3.4 Kitchen Sinks and Dishwashers 30 1.3.5 Combining Flows 38 1.3.6 Evaluating the Amount of Greywater and Potential for Water Saving 40
	Chapter 1 Greywater Characteristics 1 1.1 Introduction 1 1.2 Greywater Characteristics 3 1.2.1 Physical Characteristics 3 1.2.1.1 Temperature 3 1.2.1.2 Color 8 1.2.1.3 Odor 8 1.2.1.4 Solids and Turbidity 8 1.2.2 Chemical Characteristics 9 1.2.2.1 Salinity and Electrical Conductivity 9 1.2.2.2 Metals 12	1.4 Diurnal Pattern of Greywater Flows 40 1.5 Diurnal Changes in Greywater Characteristics 41 1.5.1 Diurnal Changes in Organic Matter Content 41 1.5.2 Diurnal Changes in Organic Matter Content 41 1.5.2 Diurnal Changes in Content of Nutrients: 42 1.5.3 Diurnal Changes in Salt Contribution 43 1.5.4 Diurnal and Seasonal 43 1.6 Synthetic Greywater 44 1.7 Summary 44 Chapter 2 Greywater Treatment 47
Amit Gross Adi Maimon Yuval Alfiya Eran Friedler Eren Friedler	1.2.2.3 pH and Alkalinity 12 1.2.2.4 Organic Matter 13 1.2.2.5 Nutrients: Nitrogen and Phosphorus 16 1.2.2.6 Ratio between Nitrogen, Phosphorus, and Organic Matter 18 1.2.2.7 Xenobiotic Organic Compounds 19 1.2.3 Microbial Characteristics 26 1.2.3.1 Indicator Bacteria 27 1.3 Sources of Greywater 28 1.3.1 Washing Machines 28 1.3.2 Baths and Showers 28	2.1 Challenges in Treating Greywater

GROSS, Amit et al. *Greywater reuse*. London; New York; Boca Raton: CRC Press, Taylor & Francis Group, 2015. ISBN 9781482255041;1482255049;

→ greywater AND (handbook OR text book OR encyclopedias OR dictionary)

Dissertations

- Get inspired by others' approaches to similar dissertation topics, formatting, and structure
- List of sources
- Discuss the choice of sample theses with mentor
- Avoid plagiarism



- → Czech institutional repositories (CTU, UCT, CU, Grey literature)
- → International repositories, ProQuest Theses (via NTK)

Review Articles

- Type of scholarly articles that provide summary and analysis of previous research on a specific topic/problem/question
- Efficient way to gain an overview of existing research and current state-of-the-art
- A comprehensive lists of relevant sources
- Review/Systematic Review, Meta-Research, Meta-Analysis

- → (greywater OR "grey water") AND (review OR meta-analysis OR meta-research)
- → Use a filter (available e.g., in <u>Scopus</u>, <u>Web of Science</u>, <u>Google Scholar</u>, <u>Semantic Scholar</u>)

CIVIL ENGINEERING AND ENVIRONMENTAL SYSTEMS, 2016 VOL. 33, NO. 1, 35–54 http://dx.doi.org/10.1080/10286608.2015.1124868



Grey water in buildings: a mini-review of guidelines, technologies and case studies

Sabino De Gisi^a ⁽ⁱ⁾, Patrizia Casella^b, Michele Notarnicola^a and Roberto Farina^c

^aDepartment of Civil, Environmental, Land, Building Engineering and Chemistry (DICATECh), Technical University of Bari, Via Amendola 126/b, Bari (BA), Italy; ^bENEA, Department for Sustainability of Production and Territorial Systems, "Environmental biogeochemistry" Lab., Piazzale Enrico Fermi, 1, 80055 Portici (NA), Italy; ^cENEA, Department for Sustainability of Production and Territorial Systems, "Water, waste and raw materials integrated management technologies" Lab., Via Martiri di Monte Sole, 4, 40129 Bologna (BO), Italy

ABSTRACT

The aim of the work is to describe the state-of-the-art on the reuse of grey water at building level taking into account (i) the grey water characteristics and amounts produced, (ii) the recycling guidelines, (iii) the treatment systems and reuse technologies, also considering the removal of micro-pollutants as xenobiotic organic compounds, and (iv) an overview of case studies for developed countries. The mini-review highlights how the existing technologies allow the safe reuse of grey water. Attention must be given to the removal of micro-pollutants especially when the discharge takes place in surface water. With reference to 12 case studies of buildings which adopt non-conventional technologies with the aim to optimise energy

ARTICLE HISTORY

Received 3 April 2015 Accepted 7 October 2015

KEYWORDS

Buildings; grey water; reuse; treatment technologies

DE GISI, Sabino et al. Grey water in buildings: a mini-review of guidelines, technologies and case studies. *Civil engineering and environmental systems*. 2016, vol. 33, no. 1, pp. 35–54 [cit. 2022-10-10]. Available: https://doi.org/10.1080/10286608.2015.1124868

Seminal Articles

- **Core articles** for specific fields, usually providing some groundbreaking information
- Can usually be identified by the high number of citations
- Via citation databases (reliable journals and proceedings)
- → ("waste water" OR "grey water") sorted via number of citations in Web of Science or Scopus

Chaudhuri, L. (n.d.). Seminal Works. EdD Executive Leadership <u>https://resources.library.lemoyne.edu/guides/EdD/Systematic-</u> *Review/Seminal-Works*

Scopus (<u>@ NTK</u>)

00 Analyze search results					Sh	ow all abstracts	Sort on: Cited by (highest)		
	 Export 	Download	View citation overview	View cited by	Add to List	••••			
	Document t	itle		Author	s		Yea	Source	Cited by
<u>1</u>	Pseudo-seco	ond order mo	del for sorption processes	Ho, Y.S	., McKay, G.		1999	Process Biochemistry 34(5), pp. 451-465	10449
View abstract View at Publisher Related documents									

Web of Science (@ NTK)

Refine results		O/117,893 Add To Marked List Export ~ Citations: highest first ~ <	1 of 2,000 >			
Search within results for	Q					
Quick Filters		Pseudo-second order model for sorption processes Ho, YS and McKay, G	10,998 Citations			
🔲 🍷 Highly Cited Papers	1,569	Jul 1999 <u>PROCESS BIOCHEMISTRY</u> 34 (5) , pp.451-465	85			
🔲 🌢 Hot Papers	45	A literature review of the use of sorbents and biosorbents to treat polluted aqueous effluents containing dyes/organics or metal ions has been conducted. Over 70 systems have been reported since 1984 and over 43 of these reported the mechanism as				
🔲 🖹 Review Articles	7,859	being a pseudo-first order kinetic mechanism. Three sorption kinetic models are presented in this pa Show more				
Early Access	933	SFX Full Text at Publisher ***	Related records			
🔲 👌 Open Access	22,250					
🔲 🛢 Associated Data	336					

→ Learn more about Citation Databases on our <u>website</u>

Seminal Articles (2)

Other **search engines for academic resources** that enable sorting results by number of citations:

- <u>Semantic Scholar</u> (a free search engine developed by the <u>Allen Institute for Al</u>)
- <u>Dimensions</u> (a commercial scholarly search platform, the free version includes searching in publications and datasets only)

Consider:

- Number of citations vs. time
- Difference: citation count in different tools (different set of content for analysis)

Semantic Scholar (https://www.semanticscholar.org/)

About 65,300 results for ""waste water" OR "grey water""	Top 100 relevant results, sorted by citation count		
Fields of Study Date Range Has PDF Publication Type Author Journals & Conferences	Sort by Citation Co >		
Life cycle assessment of municipal waste water systems			
A. Tillman, M. Svingby, Henrik Lundström · Environmental Science · 1 May 1998			
Life Cycle Assessment was applied to municipal planning in a study of waste water systems in Bergsjön, a Göteborg			
suburb, and Hamburgsund, a coastal village. Existing waste water treatment consists Expand			
(Lif 192) (PDF) · Z View on Springer R Save Alert Life Cite			
Anaerobic treatment as a core technology for energy, nutrients and water recovery from source-			
separated domestic waste(water).			
G. Zeeman, K. Kujawa, +9 authors G. Lettinga · Environmental Science, Biology · Water science and technology : a journal of the ·			
1 April 2008			

Dimensions (<u>https://app.dimensions.ai/discover/publication</u>)

۹	"waste water" OR " Free text in full data	grey water" $ imes$					Save / Exp
	PUBLICATIONS 453,634	DATASETS 2,088	GRANTS 4,347	PATENTS 904,189	CLINICAL TRIALS	POLICY DOCUM 13,694	IENTS
	Title, Author(s), Bibl Standard metho				l waste water.	Show abstract	Sort by: Citations \backsim
	F W Gilcreas						
	1966, American Jou	urnal of Public H	ealth and the	Nations Healt	h - Article		
	Citations 11k	Open Access	≓+ Add to Lib	rary			

<u>Google Scholar</u> – number of citation, but does not enable sorting

\equiv Google	Scholar "grey water" OR "waste water"	Q SIGN IN
Articles	About 18,600 results (0.06 sec)	😒 My profile 🛛 🖈 My library
Any time Since 2022 Since 2021 Since 2018 Custom range	[нтмL] Review of the technological approaches for grey water treatment and reuses F Li, K Wichmann, R Otterpohl - Science of the total environment, 2009 - Elsevier bathroom grey water, the laundry grey water and the mixed grey water are also deficient in nitrogen. In some cases, the laundry grey water and the mixed grey water Kitchen grey water ☆ Save 奶 Cite Cited by 720 Felated articles All 12 versions Web of Science: 347 ≫	[HTML] sciencedirect.com Full text @ NTK

How Do You Stay Aware of Recent Research Trends?

A. Automatic alerts (email, RSS feeds) from a database or search engine (e.g., Google Scholar)

- B. Via social media (ResearchGate, Twitter, and so on)
- C. Checking a particular journal or website on a regular basis
- D. Receiving a newsletter from an institution or website
- E. Other (chat)

The Most Up-to-date, State-of-the-art Search

- Follow key scholars and institutions in your research field
- Preprint servers (<u>arXiv</u>, <u>bioRxiv</u>, others): articles published before peer review
- Conference papers, conference proceeding books
- Informal exploration of early-stage ideas: blogs, social networks, lectures



https://arxiv.org/

5. READING & ORGANIZING SOURCES

Reading: Smart, Careful, Mindful

- Essential part of keeping up-to-date with current research (new discoveries, leading authors, context of one's own research)
- Prerequisites for writing (writing habits in the field, argumentation, citing)

TIPS

- Be smart and picky; focus on abstract, conclusion, and specific issues before deciding to read the whole paper carefully
- Make notes from the very beginning; it will save your time later
- Managing sources: create your own system to organize materials and thoughts, be systematic

Managing Sources – Tips & Tricks

- Notes (electronic vs. written): important information, relationship to your work (methodology, contradictory or confirmatory conclusions, and so on)
- Folders, tags, or ranking system to differentiate between documents
- Citation managament tools

A negative manufaction and explanation of (in)efficiency in higher education instructores ensure and by the second ensure and the U.S. with the application of two character and the second ensure and the u.S. with the application of two character and the use and the u.S. with the application of two character and the use and the u.S. with the application of two character and the use and th	Research paper			When stereotypes me	eet robots: The double-edge sword of robot gender
<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>	An evaluation and exp	lanation of (in)efficiency	in higher education		
<form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form>					DOBAS 7
<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>		and the 0.5. when the up		Benedict Tay [*] , Younbo Jung	g", Taezoon Park
<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>	parametric DEA			* Division of Systems and Engineering Manager	ment, School of Mechanical & Aerospace Engineering, Nanyang Tech
<text><section-header></section-header></text>	Joanna Wolszczak-Derlacz		Nadezda FirsovOptions •	^b Division of Communication Research, Wee Kin ^c Department of Industrial & Information Syste	
<section-header><section-header><section-header><form><form><form><form></form></form></form></form></section-header></section-header></section-header>	Gdarisk University of Technology, Faculty of Man	agament and Economics, Narutowicza 11/12, 80-233 (Gdutuk, Poland DEA - metodika		TRST. V
<text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text>				ARTICLE INFO	
<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>	ARTICLEINFO	ABSTRACT			
<text><text><text><text><text><text><text></text></text></text></text></text></text></text>	HL clauffeations	In this study the technical efficiency of	of number of public European and American HEIs is assessed over a decade.	Available online 14 June 2014	
<text><text><text><text><text><text><text></text></text></text></text></text></text></text>	123	Efficiency scores are determined usi	ing nonparametric DEA with different input-output sets and considering		two different roles of a healthcare and security t
<text><text><text><text><text><text><text></text></text></text></text></text></text></text>					
<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>		Incontinuing an incolocational course	the other and demoterate compatible and the second s		sonality-occupational role stereotypes. This find PEAMLE RES
<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>	Higher education institutions	Specifically, the results indicate a pe	ositive association between both regio=25/11/2020 18:47:00 ×		robots do not monotonically influence user respo
<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>					
<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>		European HEIs are more efficient, b	aut this is not confirmed for American INAGEZOA FIRSO UPLIONS		
<section-header><section-header><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header>		seems to have a negative effect on th	te efficiency of universities in Europe, w		
Numbers are meaningful: according to the Academic Ranking of World Universities' 2016 fifteen of the top terms inversities' 2016 fifteen of the top terms inversities' 2016 fifteen of the top terms inversities' 2016 fifteen terms in aims: firstly, to compare the technical mitricians is period 1996-2017, Securing 3346 of the total citation: institutions. Secondly, the therefore the main Acidemic Heedle, condition institutions. Secondly, the total citation: institutions of the conduction for the main factors as an analytic total with the main factors as a number of social form the whole and zerosching to improve the preformance they too institutions (in the Taropanc condition with the social string factors in the form the whole world are exacting in the total citation: (in the taropance and poly). Nowadays Hills in boto string a properties of the preduction form the internal American preperties. In the LS, as their benchmark model, while schear from the whole and cancers et al. 2017). Nowadays Hills in the social string factor in the form of problems, and its world are exacting in the total citation: (in the Taropance and country appeting human length are attend to problems, and its world are exacting in the total citation: (in the Taropance and the total citation: (in the taropance and the social string factor in tot for of prophemicant in the world wide dominance and the terms in the social of the social string factor in the social present and and the social string factor in the social present and the social string factor in the social present and associal contring string in the social string factor in the social present and associal contring string in the social string factor in the development of social in the string associal contri	2		Barlery, o modely		
Example and score ()=00 or gate at 1 mm///viscore ()=00 or gate at 1 mm//viscore ()=00 or gate at 1 mm//viscore ()=00 or gate at 1 mm//viscore ()=00 or gate at 1 mm/viscore ()=00 or gat 1 mm/vi	World Universities ¹ 2016 fiftent of the U.S., Americana published 23%, articles in the period 1996-2015, cou- This is perceived in the literature as at the differences between Europe and the research (Bonzcorsi et al., 2017). Be that the American systeme of higher e- eminent and when higher educatio around the world are searching to impo- tu universities in the U.S. as their is from the whole world are attracted to 2010). However, from the internal A education sector is not free of problem has also recently been challerged (A	to promy universities were in effort of the total mumber of scientific training 33% of the total citations. ⁴ to the transaltantic gaps – referring to the U.S. in the quality of academic acase of this, it is not surprising ducation is perceived to be per- former thank model. The second ducation is perceived to be per- tended and the second out of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	This study has three main aims: firstly, to compare the technical ciercy of European and U.S. higher education institutions. Secondly, valuate the main factors that determine the efficiency of Hils and to whether these factors might have varying impacts on the European U.S. efficiency. Thirdly, to address an evaluation problem, in- laring DEA techniques as an analytic tool which can serve both Y managers and policymakers. Data envelopment analysis (DEA) is used in this study – a metho- gog which constructs a production frontier in the multi-input/multi- put case – in order to evaluate the relative efficiency of a sample of higher education institutions (in the European countries and the). for the period between 2000 and 2012. Different models are es- ated for different imput-output sets and assumed frontier: global, ional and country-specific ones.	when compared to industrial job and repetitive tasks in factory set rapid development of relevant te demand for human resources injoot to play roles that age_generally refit social contexts_stificulating the home and hospitaß (Lee, Kiesler, 8 Forlit social robots, Towever, is not simpl require a good mixture of tate-of-f ity for firedly social interaction. At human-technology interaction, at field as a key element for succes robots (Lzer, Fisk, & Rogers, 20 Wieinga, 2010). Along these lines.1	accusatingly become diversified sorts that perform monotonous titings. In accordance with the chologies and the increasing liad settings, robots are expected ited. by humans in a variety of lied. by humans intervention of lied. and the lied of the preliminary success in an robots, simply applying human characteristic may cause envire and reprogram provide importantiation of social lied. Intervents, lied. In the product of the preliminary success in a recent of the preliminary success in an robots, simply applying human. Intervents in spite of the preliminary success in an robots lied and certainers, but not perfectly. In other works, when robots become or behave start (p pay more attention to the suble differ robots in and certainers) been rising <i>j</i> interactive robots that can
Available online 34 August 2017 0648-7333/ 6 2017 Baevier R.V. All rights reserved.	¹ http://www.sharpabaraking.com/XRVD2 purely siceline insthology used to a DEA or of thoroughly (e.g. monofilmmesionality, lack of dological allowine company), com/contry and h_plant ² http://www.scimagajc.com/contry and h_plant ² http://wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	her rongarametric methods as used in our paper. Da tatistical robustness to sub-cond propose a new genera proximportance to university presidge as they receiv granin = Okanin_type =1; toral perspective of increasing competition for public)	ating (anorg e aran et al. (201 Zkontrolovat zdroje pro rešerši ev a grat dal	Systems Engineering Scongst University 156-743, South Koee, Ful: 492 3 88 2747 E-meil addrese trpactellismacht (T. Part http://dx.dei.org/10.1016/j.chb.2014.05.014 0747-5632/9/2014 Elsevier U.d. All rights n	special robots: could negatively influence provide the second robots influence provide a second robots influence provide a second robots in a second robots in the second ro
		heread		CHACE	
A//	Some sharp to an a classifier b. t. All rights res			Statements in the second second second second	
			Δ		

Example of electronic notes



DOBLY ZD603

Example of written notes

Citation Management Tools

- Download and manage citations
- Create personal library
- Insert tags and notes
- Collaboration
- Generation of reference list
- Integrate with word processing software tools for easy insertion of citations into documents

<u>Zotero</u>

CitacePRO

<u>Mendeley</u>

<u>Citavi</u>

JabRef (integrated with LaTeX)

EndNote (subscription for UCT students)

Use them, but don't trust them absolutely!

Z Zotero							
Soubor (<u>F)</u> Úpr <u>a</u> vy Nás <u>t</u> roje Pomoc (<u>H</u>)							
🗸 🥅 Moje knihovna	Název	/	Tvůrce	Rok	@ E		
DIPLOMKA	> 🗄	Information Literacy in the Disciplines: Engineering Instruction Section Website	ACRL				
🚞 ECIL 2016	> 🗎	So you want to do anthropology in your library	Asher a Miller	2011			
HRUSOVANY	> 📄	Information Literacy Standards for Science and Engineering/Technology	Association of College & Research	Libr 2006			
Y 🚞 NTK	> 🗎	Nontraditional undergraduates at home, work, and school: an examination of information-seeking behaviors and the impact of infor	Branch	2003			
> 🚞 01_Kon_Kaiserova	> 🗎	Information seeking and searching habits of Greek physicists and astronomers: a case study of undergraduate students	Brindesi et al.	2013			
> 🚞 02_Kon_Zalud	> =	Academic libraries and social and learning space	Bryant et al.				
📔 03_KON_Lichtenbergová	> 🖹	Millennial Students' Online Search Strategies are Associated With Their Mental Models of Search	Bussert	2011			
NTK team publications	> 🖹	Information-seeking behaviour of undergraduate biology students	Callinan	2013			
🚞 Řazení VV	> 🗐	Looking for information : a survey of research on information seeking, needs and behavior	Case	2002			
📴 Unipetrol - test		"You just type in what you are looking for": Undergraduates' use of library resources vs. Wikipedia	Colón-Aquirre a Fleming-May	2012			
Workshopy		The Library in the Life of the User: Engaging with People Where They Live and Learn	Connaway a lxchel				
Mé publikace	>	Research design : gualitative, guantitative, and mixed methods approaches	Creswell	2014			
🚠 Duplicitní položky	>	The library study at Fresno State	Delcore et al.	2009			
🐚 Nezařazené položky	> 🖹	Discipline-Specific Library Instruction for Millennial Students	Dotson a Diaz	2008			
🗒 Koš	F	College libraries and student culture	Duke a Asher	2012			
		Tracing information literacy of computer science undergraduates: A content analysis of students' academic exercise	Edzan	2007			
🝰 Skupinové knihovny	>	Modelling the information seeking patterns of engineers and research scientists in an industrial environment	Ellis a Haugan	1997			
🗸 🥅 Academic language support in STEM		The Why, What and How of Using Ethnography for Designing User Experience in Libraries	Emary	2016			
🛅 Czech literature		Information-seeking behavior of undergraduate geography students	Fescemyer	2000			
🗀 English literature		Are we there vet?: Mixed methods research in library and information science	Fidel	2008			
🗀 French literature		Human information interaction: an ecological approach to information behavior	Fidel	2012			
🚞 German literature		Serendipity and its study	Foster a Ellis	2014			
🚞 Swedish literature	>	Studying Students	Foster a Gibbons	2007			
🚠 Duplicitní položky	>	Information seeking through students' eyes: The MIT photo diary study	Gabridge et al.	2008			
🔟 Nezařazené položky		Research methods used in library and information science during the 1970-2010	Gauchi Risso	2016			
🕤 Koš	>	Scholarly use of information: graduate students' information seeking behaviour	George et al.	2006			
🔉 💼 libraryspacentk	>	A Study of Undergraduate Information Literacy and Skills: The Inclusion of Information Literacy and Skills in the Undergraduate Curri		1999			
	> 👼	Understanding presence awareness information needs among engineering students	Herskovic et al.	2012			
		Empirical research methods reported in high-profile LIS journal literature	Hider a Pymm	2008			
		Information Literacy in the Engineering Technologies at the Community College: A Literature Review	Hill et al.	2012			
		Millennial students' mental models of search: Implications for academic librarians and database developers	Holman	2011			

6. PUBLISHING AND PRESENTING RESEARCH OUTPUTS

Have You Ever Published in a Scientific Journal or Conference Proceedings?

A. Yes, as a co-author

- B. Yes, as the corresponding (lead) author
- C. Not at all

Searching High-quality Journals and Conferences

- Ask your mentor and/or peers
- Use citation and analytical databases to identify reliable journals and conferences: <u>Web of Science</u>, <u>Scopus</u>, <u>Inspec Analytics</u>
- Try recommender services such as <u>Elsevier JournalFinder</u>, <u>WoS Manuscript Matcher</u>
- Review the quality & reputation (journal metrics, editorial board, conference organizers, mentor recommendations), <u>peer-review process</u> and author services provided; read tips about <u>avoiding predatory and questionable conferences</u>
- Consider relevance of the conference to your field as well as its intended audience
- Open Access, Open Data
- Article processing charge (APC) and other costs and benefits
- Learn whether you can submit the same content to multiple journals or conferences at the same time (or not)

Searching High-quality Journals and Conferences

Eaton, S.E. (2018). Avoiding predatory journals and questionable conferences: A resource guide. *University of Calgary*. <u>https://files.eric.ed.gov/fulltext/ED579189.pdf</u>

Palmer, J. C. (2016). Navigating your first academic conference. *Psychological Science Agenda*. <u>https://www.apa.org/science/about/psa/2016/10/academic-conference</u>

Northcentral University Library (2021). *Research Process: Scholarly Publication.* <u>https://ncu.libguides.com/researchprocess/scholarlypublication</u>

Berkeley Library. (n.d.) *Scholarly Publishing.* <u>https://www.lib.berkeley.edu/scholarly-communication/publishing</u>

UNC University Libraries. (2021). Measure Your Research Impact: Where to Publish. <u>https://guides.lib.unc.edu/measure-impact/publish</u>



- Activate Library links on Google Scholar
- Always make sure you are logged into the library web for offcampus access to full-text articles
- Contact your librarian for materials that are hard-to-find
- Make notes and create your own system to organize materials from the very beginning of a project
- Use citation managers, but don't trust them absolutely!
- Critically consider journals and conferences and be aware of the publishing and conference submission process.

Get Assistance

1) Schedule a consultation

- Please don't be shy; <u>our team</u> includes doctoral students who know, the issues you face
- LaTeX support, Bibliometric services

2) Attend a webinar

3) Explore by yourself

- <u>STEMskiller</u>: comprehensive skills set map for early career researchers
- <u>Tutorials</u>: NTK instructional materials and recordings, further resources
- <u>Subject guides</u>





Barbora Šátková

Klára Hutková

barbora.satkova@techlib.cz

klara.hutkova@techlib.cz

Thank you

Questions?