

NTK

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Národní technická knihovna
National Library of Technology

Navigating Scientific Resources & Staying Organized

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

April 2022

Petr Nouza, Eva Karbanová

Which University Do You Study?

- 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


Agenda

1. Searching: Introduction
2. Google Scholar
3. Library Resources & Full Text Access
4. Types of Resources
5. Reading & Organizing Resources
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](#)
 - [Mathematics Subject Classification](#)
 - [The Transportation Research Thesaurus](#)
 - [INSPEC Thesaurus](#) (after login)
- Other useful tools:
 - [Wikipedia](#) (translation of terms, fact checking,...)
 - [Google Scholar](#)



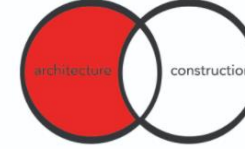
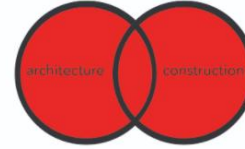
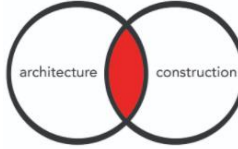
Affective computing	
BT:	Artificial
intelligence	
	Human computer
interaction	
RT:	Behavioral sciences
	Cognitive systems
	Emotion recognition
	Human factors
	Psychology

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



“”

*



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

→ [More database tips](#)

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)

Searching Tools for Scientific Resources

- **Search engines**

- [Google Scholar](#)

- Library discovery tool ([NTK](#), [chemTK](#), [CTU](#))

...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. [DOAJ](#), [PubMed Central](#) and [others](#))

- **Preprint collections** on servers as [arXiv](#), [ResearchGate](#), [Academia.edu](#) or [institutional repositories](#)

- **Citation databases** [Web of Science](#) and [Scopus](#) (no full text, but links to full text)

& **P2P servers** as [Sci-Hub](#), [LibGen](#), Ulož.to

2. GOOGLE SCHOLAR

Library Links

Google Scholar

household photovoltaic OR solar system "grid connected"

Articles About 43,200 results (0.02 sec)

Any time

Since 2020

Since 2019

Since 2016

Custom range...

Sort by relevance

Sort by date

include patents

include citations

Create alert

[HTML] Simulation and performance analysis of 110 kWp **grid-connected photovoltaic system** for **residential** building in India: A comparative analysis of various PV ...

AK Shukla, K Sudhakar, P Baredar - Energy Reports, 2016 - Elsevier

Abstract **System** simulation is necessary to investigate the feasibility of **Solar PV system** at a given location. This study is done to evaluate the feasibility of **grid connected rooftop solar photovoltaic system** for a **residential** Hostel building at MANIT, Bhopal, India (Latitude: 23° ...

☆ 99 Cited by 124 Related articles All 4 versions

[HTML] sciencedirect.com
Full text @ NTK

Control and **power** management of a **grid connected residential photovoltaic system** with plug-in hybrid electric vehicle (PHEV) load

Y Gurkaynak, A Khaligh - ... -Fourth Annual IEEE Applied Power ..., 2009 - ieeexplore.ieee.org

The main objective of this paper is to design and analyze a **residential photovoltaic system** for plug-in hybrid electric vehicle load, in addition to regular **residential** requirements. This **system** is a combination of two subsystems which are cascaded through a DC link. First ...

☆ 99 Cited by 89 Related articles All 2 versions

[PDF] ieee.org
Full text @ NTK

Coordinated control of **grid-connected photovoltaic reactive power** and battery energy storage **systems** to improve the voltage profile of a **residential** distribution feeder

MN Kabir, Y Mishra, G Ledwich... - IEEE Transactions on ..., 2014 - ieeexplore.ieee.org

Increasing penetration of **photovoltaic** (PV), as well as increasing peak load demand, has resulted in poor voltage profile for some **residential** distribution networks. This paper proposes coordinated use of PV and battery energy storage (BES) to address voltage rise ...

☆ 99 Cited by 283 Related articles All 5 versions

[PDF] ieee.org
Full text @ NTK

Optimal sizing of **grid-connected photovoltaic battery systems** for **residential** houses in Australia

J Li - Renewable energy, 2019 - Elsevier

This paper presents optimal sizing algorithms of **grid-connected photovoltaic-battery system** for **residential** houses. The objective is to minimize the total annual cost of electricity. The proposed methodology is based on a genetic algorithm involving a time series simulation of ...

☆ 99 Cited by 40 Related articles All 7 versions

[PDF] ieee.org
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Near-term economic benefits from **grid-connected residential PV (photovoltaic) systems**

GG Pillai, GA Putrus, T Georgitsioti, NM Pearsall - Energy, 2014 - Elsevier

One of the main reasons attributed to the slow uptake of **grid-connected residential PV (photovoltaic) systems**, is the lack of information about the near-term economic benefits which are as important as long-term viability for **residential** customers. This paper presents a ...

☆ 99 Cited by 87 Related articles All 11 versions

[PDF] ieee.org
Full text @ NTK

Steady-state performance of a **grid-connected rooftop hybrid wind-photovoltaic power system** with battery storage

F Giraud, ZM Salameh - IEEE transactions on energy ..., 2001 - ieeexplore.ieee.org

... in time of low demand to use it when the **residential** load needs ... SALAMEH: STEADY-STATE

[PDF] ieee.org
Full text @ NTK

Google Scholar

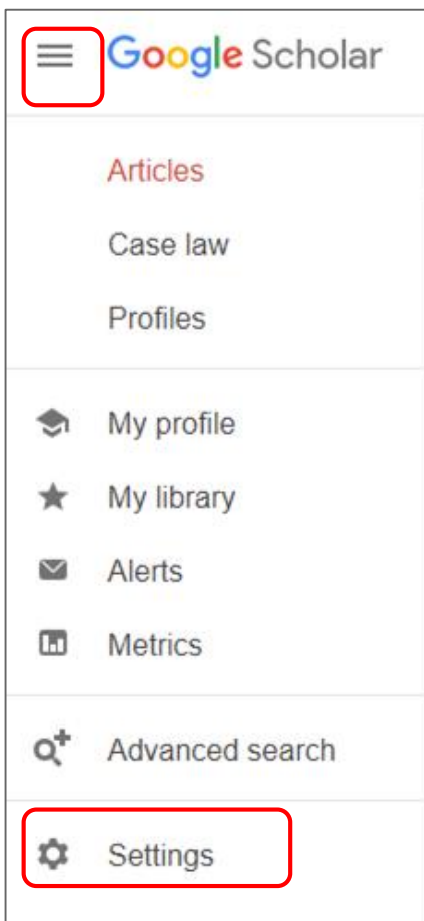
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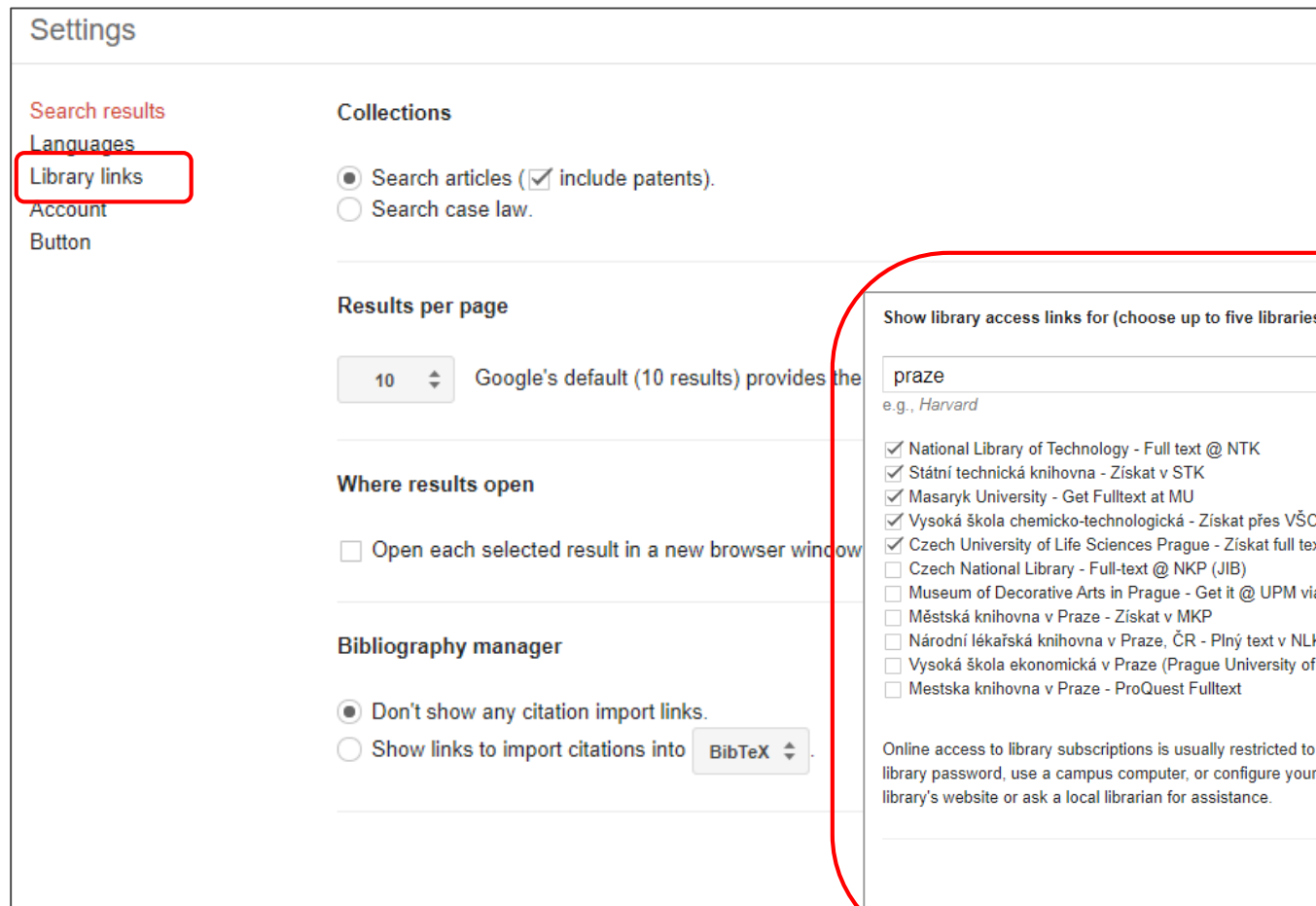
- [CTU](#) is currently not fully integrated with Google Scholar

Library Links Setting



Google Scholar

- Articles
- Case law
- Profiles
- My profile
- My library
- Alerts
- Metrics
- Advanced search
- Settings



Settings

Search results

Library links

Account

Button

Collections

Search articles (include patents).

Search case law.

Results per page

10 Google's default (10 results) provides the

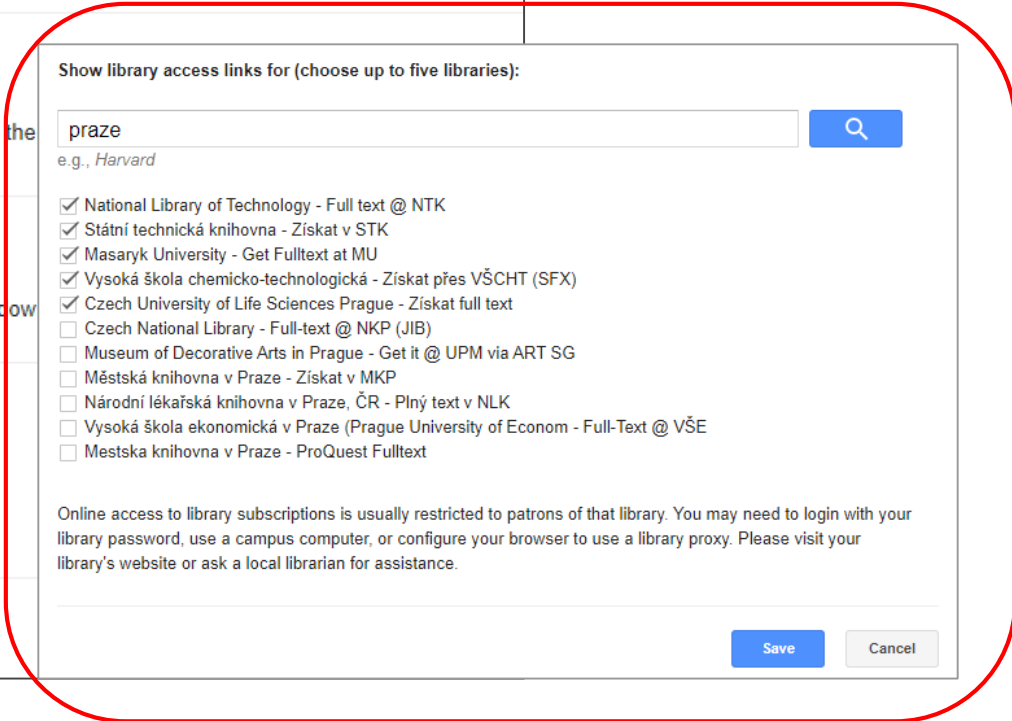
Where results open

Open each selected result in a new browser window

Bibliography manager

Don't show any citation import links.

Show links to import citations into **BibTeX**



Show library access links for (choose up to five libraries):

praze

e.g., Harvard

- 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)
- 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
- 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

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Save Cancel

Google Scholar Button



- Browser extension ([Chrome](#), [Firefox](#), [Opera](#))

A vertical sidebar menu for Google Scholar. At the top is the Google Scholar logo with a red box around the hamburger menu icon. Below are several menu items: 'Articles', 'Case law', 'Profiles', 'My profile', 'My library', 'Alerts', 'Metrics', 'Advanced search', and 'Settings'. The 'Settings' item at the bottom is highlighted with a red rounded rectangle.

Google Scholar

Articles

Case law

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Settings

A settings dialog box titled 'Settings' with a blue graduation cap icon. On the left is a sidebar menu with 'Button' highlighted by a red rounded rectangle. The main area is titled 'Scholar Button for your browser'. It shows a browser address bar with 'https://www.example.edu/paper.pdf' and a blue graduation cap icon. Below is a 'Bibliography' section with a green button containing a magnifying glass, '[PDF]', and 'Cite'. A citation is listed: '1. Einstein, A., B. Podolsky, and N. Rosen, 1935, "Can quantum-mechanical description of physical reality be considered complete?", Phys. Rev. 47, 777-780.' At the bottom, a blue rounded rectangle contains the text 'Install Scholar Button to look up papers as you browse.'. At the bottom right are 'Save' and 'Cancel' buttons.

Settings

Search results

Languages

Library links

Account

Button

Scholar Button for your browser

https://www.example.edu/paper.pdf

Bibliography

[PDF] "Cite"

1. 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.

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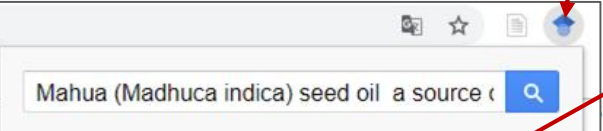


- Quick access to **full text** & citations download

References

[1] Sheehan J, Cambreco V, Duffield J, Garboski M, Shapouri H. An overview of biodiesel and petroleum diesel life cycles. A report by US Department of Agriculture and Energy; 1998. p. 1–35.
[Google Scholar](#)

[2] S. Puhan, N. Vedaraman, B.V. Rambrahaman, G. Nagarajan
Mahua (*Madhuca indica*) seed oil: a source of renewable energy in India
J Sci Ind Res, 64 (2005), pp. 890-896
[View Record in Scopus](#) [Google Scholar](#)

[3] 

[4] **Mahua (*Madhuca indica*) seed oil: A source of renewable energy in India**
S Puhan, N Vedaraman, BV Rambrahaman... - 2005
Mahua oil methyl, ethyl and butyl esters were prepared and studied in a four stroke, direct injection diesel engine for their performance and emissions. The engine test results showed high thermal efficiency in case of methyl ester compared to all other esters and diesel fuel. Different emissions such as carbon monoxide (CO), oxides of nitrogen (NO_x), hydrocarbons (HC) is low for alkyl esters compared to diesel. Among alkyl esters except NO_x all tail pipe emissions are lower in case of methyl ester compared to other esters. The ethyl ester shows ...

[5] Počet citací tohoto článku: 163 [Související články](#)
Všechny verze (počet: 5)
[\[PDF\] niscar.res.in](#)

Chcete-li vyhledat jiný článek, vyberte jeho název na stránce.

Mahua (*Madhuca indica*) seed oil: A source of renewable energy in India

Sukumar Puhan¹, N Vedaraman^{1*}, B V Rambrahaman¹ and G Nagarajan²
¹Chemical Engineering Division, Central Leather Research Institute, Chennai
²Department of Mechanical Engineering, Anna University, Chennai

Mahua oil methyl, ethyl and butyl esters were prepared and studied in a four stroke, direct injection diesel engine for their performance and emissions. The engine test results showed high thermal efficiency in case of methyl ester compared to all other esters and diesel fuel. Different emissions such as carbon monoxide (CO), oxides of nitrogen (NO_x), hydrocarbons (HC) is low for alkyl esters compared to diesel. Among alkyl esters except NO_x all tail pipe emissions are lower in case of methyl ester compared to other esters. The ethyl ester shows lower NO_x emission compared to other esters. Based on this study, mahua oil methyl ester performs well compared to other esters on the basis of performance and emissions.

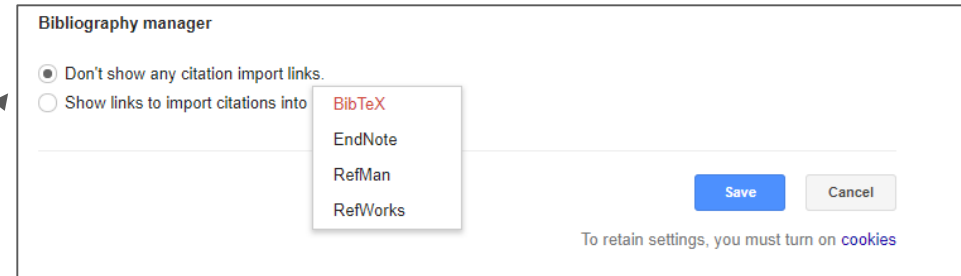
Keywords: Biodiesel, Diesel engine, Emissions, Mahua oil, Renewable energy
IPC Code: F02B13/10

Introduction
Worldwide energy consumption has increased 17 fold in the last century and, as a consequence, the carbon dioxide (CO₂), sulfur dioxide (SO₂) and nitrogen oxides (NO_x) emissions from the combustion of fossil fuels have damaged the atmosphere to a significant extent. CO₂ emissions have risen over the last two decades, reaching an atmospheric content of 360 ppm, estimating the world CO₂ emissions at about 26 billion metric ton per year.

diesel fuels substitute; soybean oil in the USA, rapeseed and sunflower oils in Europe, palm oil in south East Asia and coconut oil in Philippines are being considered as substitutes for diesel fuels. Since edible oil demand is higher than its domestic production (Table 1), there is no possibility of diverting this oil for production of biodiesel in India. Being a tropical country, India is rich in forest resources having a wide range of trees, which yield a significant quantity of oilseeds. The production of

Google Scholar Tips & Tricks

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



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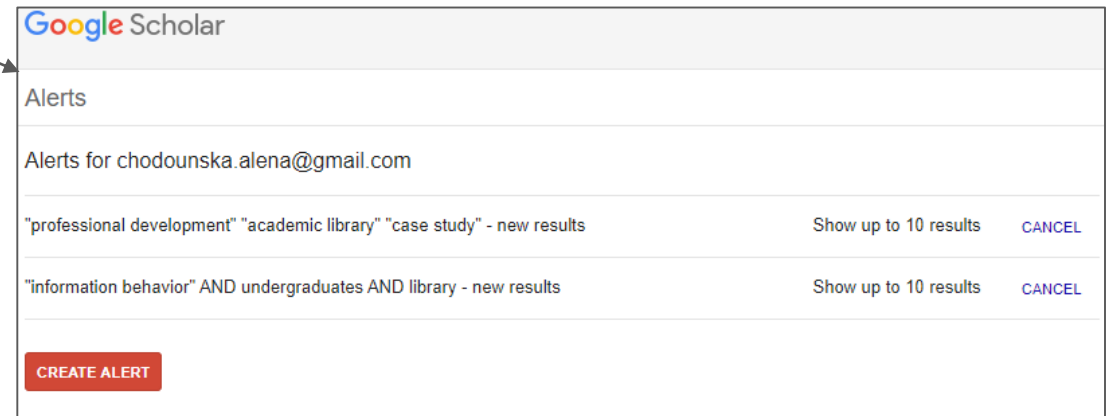
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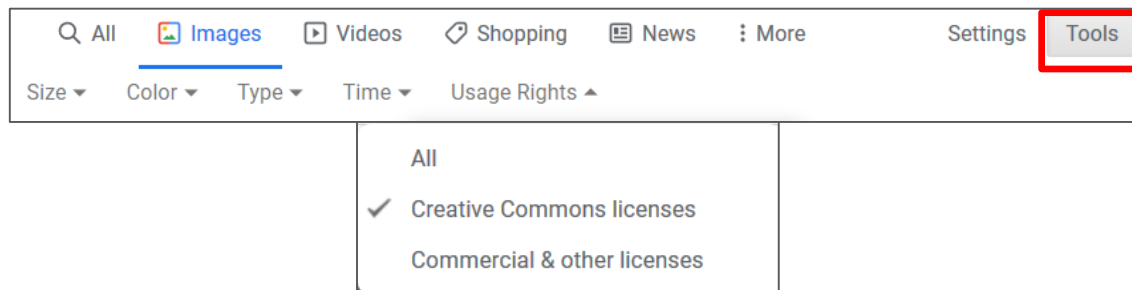
"professional development" "academic library" "case study" - new results	Show up to 10 results	CANCEL
"information behavior" AND undergraduates AND library - new results	Show up to 10 results	CANCEL

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**

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



→ [More Tips & Tricks on Google](#)

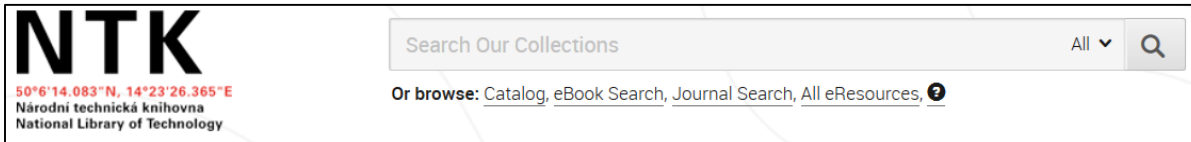
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- Specific databases and electronic collections
- Access to full text
- Document delivery / interlibrary loan

[Electronic resources accessible from home](#)

Library Discovery Tools




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<https://www.techlib.cz/en/>

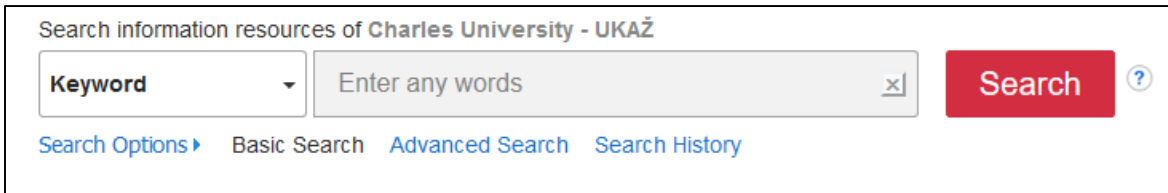


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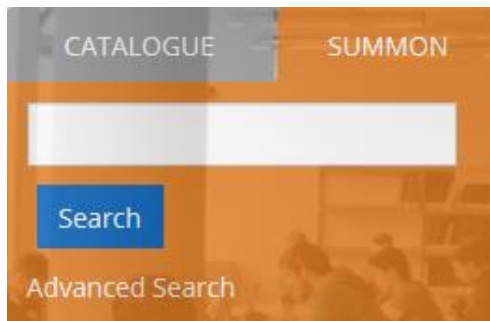


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Keyword ▾ Enter any words x | Search ⓘ

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<https://ukaz.cuni.cz>



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Search

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- Advanced filtering
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Discovery = search all databases from one field

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1 / 4 [Temporary Access to Online Collections →](#)

List of all databases (eResources) and eJournals & eBooks

NTK Hours: 8:00 - 2:00 [All hours](#)

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- Print, Scan, Copy
- Wi-Fi
- What's On

Current seating occupancy:

259 out of 900

Quick access to main databases including Web of Science and Scopus

News

Digitization of EOD historical books
5. 10. – From October 1-31, you can order digital copies of historical books from nine EOD (eBooks on Demand) member libraries for 10 euros. More information can be found [here](#).

Winter Semester webinars
23. 9. – We've prepared a series of free Winter Semester webinars for [doctoral students](#) and [other early career researchers](#). Registration is open.

Changes starting September 1
7. 9. – Starting September 1, you can use the [Team Study Rooms](#) and the [Quiet Study Room](#) again. Library seating capacity has been increased to 900, and 46 persons can now be in

- Selected eResources**
- [Cambridge Journals](#)
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 - [IOPscience](#)
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 - [Oxford English Dictionary](#)
 - [Oxford Journals](#)
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Use filters to find resources relevant to a particular subject, in a particular format, or by language.

Title	Access	Description
Academic Search Ultimate	via NTK	Description
AccessScience New	via NTK	Description
ACM Digital Library	via NTK	Description
ACS New	Open access	Description
American Institute of Physics - Complete	via NTK	Description
Analytical Abstracts	via NTK	Description
Anopress IT	Workstations in the library	Description
Apress	via NTK	Description
APS e- Journals	via NTK	Description

Search and Filters

Type to filter

- RESOURCE TYPE
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- SUBJECTS
- ACCESS
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<https://www.techlib.cz/en/2883-eresources>

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
<p>Journal Search</p> <ul style="list-style-type: none">● Search for journal title or ISSN	<p>Discovery tool</p> <ul style="list-style-type: none">● “Phrase search” of article title● Supplement with name of one author for better accuracy	<p>Discovery tool</p> <ul style="list-style-type: none">● “Phrase search” of book title● Supplement with name of one author for better accuracy <p>eBook Search</p> <ul style="list-style-type: none">● Search for book title, ISBN, or author

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Your status * Scholar / Scientist / Researcher
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Purpose of this order * Research
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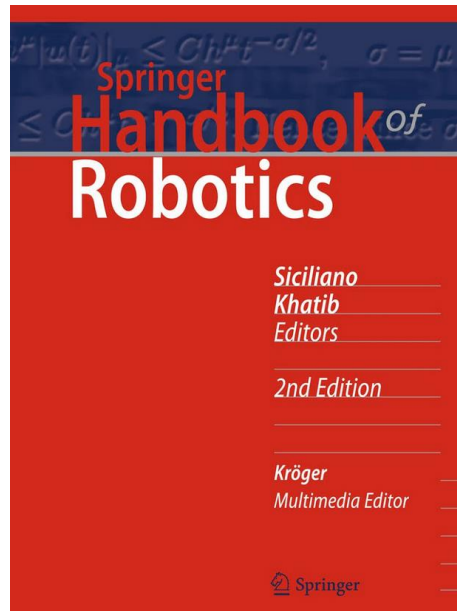
For materials that are not available online:

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- Ask for assistance: info@techlib.cz

4. TYPES OF RESOURCES

Handbooks, Textbooks, & Encyclopedias

- To get familiar with **terminology** and **context** for a new project



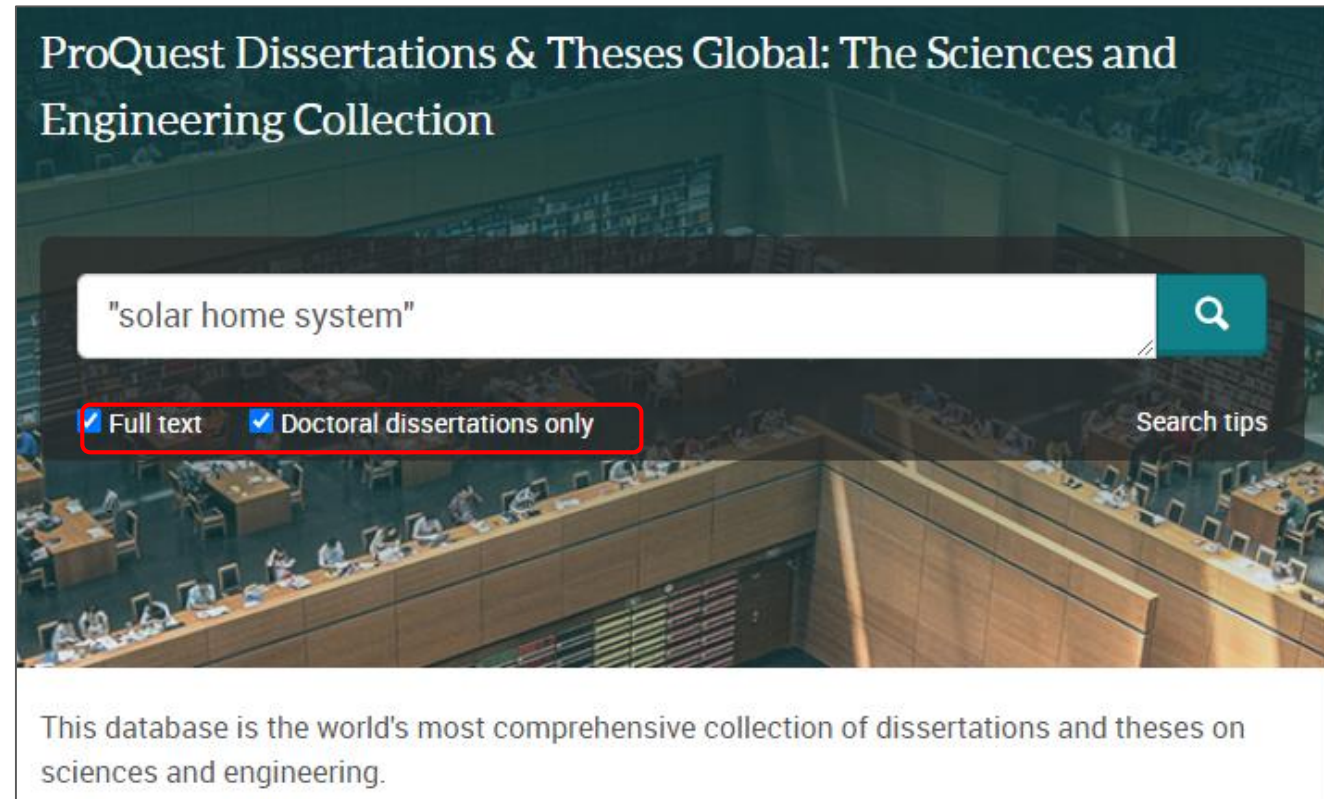
Part G Human-Centered and Life-Like Robotics	
56 Humanoids	
<i>Charles C. Kemp, Paul Fitzpatrick, Hirohisa Hirukawa, Kazuhito Yokoi, Kensuke Harada, Yoshio Matsumoto</i>	1307
56.1 Why Humanoids?	1307
56.2 History and Overview	1310
56.3 Locomotion	1312
56.4 Manipulation	1315
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56.7 Conclusions and Further Reading	1329
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57 Safety for Physical Human-Robot Interaction	
<i>Antonio Bicchi, Michael A. Peshkin, J. Edward Colgate</i>	1335
57.1 Motivations for Safe pHRI	1336
57.2 Safety for Hands-Off pHRI	1337
57.3 Design of Intrinsically Safe Robots	1338
57.4 Safety for Hands-On pHRI	1341
57.5 Safety Standards for pHRI	1345
57.6 Conclusions	1346
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58 Social Robots that Interact with People	
<i>Cynthia Breazeal, Atsuo Takanishi, Tetsunori Kobayashi</i>	1349
58.1 Social Robot Embodiment	1350
58.2 Multimodal Communication	1352
58.3 Expressive Emotion-Based Interaction	1356
58.4 Socio-cognitive Skills	1360
58.5 Conclusion and Further Reading	1365
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59 Robot Programming by Demonstration	
<i>Aude Billard, Sylvain Calinon, Rüdiger Dillmann, Stefan Schaal</i>	1371
59.1 History	1372

SICILIANO, Bruno a Oussama KHATIB, ed. [Springer Handbook of Robotics](#). 2nd. Berlin: Springer, 2016. ISBN 9783319325507.

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

Dissertations

- Get inspired by the approaches of others to similar dissertation topics and the formatting they used for structuring their theses
 - Follow their lists of resources
 - Make sure that your mentor would approve your choice of the sample theses and avoid plagiarism
- *Czech institutional repositories* ([CTU](#), [UCT](#), [CU](#), [Grey literature](#))
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Review Articles

- Type of scholarly articles that provide summary and analysis of previous research on the specific topic/problem/question
- Review, Systematic Review, Meta-Research, Meta-Analysis
- Good for learning about:
 - The state-of-the-art
 - Comprehensive lists of relevant resources
 - Previous research

- "social robot" AND (review OR meta-analysis OR meta-research)
- Use a filter (available e.g., in [Scopus](#), [Web of Science](#), [Google Scholar](#), [Semantic Scholar](#))



Social Robots for Depression in Older Adults: A Systematic Review

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<p>Key words Depression, older adults, social robot</p> <p>Correspondence Shu-Chuan Chen, School of Nursing and Midwifery, 170 Kessels Road, Nathan, Queensland 4111, Australia. E-mail: shu-chuan.chen@griffithuni.edu.au</p> <p>Accepted November 16, 2017</p> <p>doi:10.1111/jnu.12423</p>	<p>Abstract</p> <p>Purpose: In recent years, there has been an increase in the number of studies using social robots to improve psychological well-being. This systematic review investigates the effect of social robot interventions for depression in older adults.</p> <p>Methods: The Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA) method was used to identify and select existing studies. Nine electronic databases were searched for relevant studies. Methodological quality was assessed using the Joanna Briggs Institute Meta-Analysis of Statistics Assessment and Review Instrument. Screening, data extraction, and synthesis were performed by three reviewers. Inclusion criteria covered original quantitative studies investigating social robots for depression in older adults.</p>
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CHEN, Shu-Chuan, Cindy JONES a Wendy MOYLE. Social Robots for Depression in Older Adults: A Systematic Review. *Journal of Nursing Scholarship* [online]. 2018, 50(6) [cit. 2018-11-13]. DOI: 10.1111/jnu.12423. ISSN 15276546. Dostupné z: <http://doi.wiley.com/10.1111/jnu.12423>

Finding Seminal Articles

- **Core articles** for specific fields
- Quick orientation for new (interdisciplinary) projects

Use **citation databases** to find 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
<https://resources.library.lemoyne.edu/guides/EdD/Systematic-Review/Seminal-Works>

Scopus (@ NTK)

Analyze search results Show all abstracts Sort on: Cited by (highest)

All Export Download View citation overview View cited by Add to List ... Print Email Save

	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Pseudo-second order model for sorption processes	Ho, Y.S., McKay, G.	1999	Process Biochemistry 34(5), pp. 451-465	10449

View abstract SFX View at Publisher Related documents

Web of Science (@ NTK)

Refine results 0/117,893 Add To Marked List Export Citations: highest first 1 of 2,000

1 Pseudo-second order model for sorption processes 10,998 Citations

[Ho, YS and McKay, G](#)
Jul 1999 | [PROCESS BIOCHEMISTRY](#) 34 (5) , pp.451-465

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 being a pseudo-first order kinetic mechanism. Three sorption kinetic models are presented in this pa... [Show more](#)

SFX [Full Text at Publisher](#) *** 85 References [Related records](#)

→ Learn more about Citation Databases at [our webinars](#)

Finding Seminal Articles (2)

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

- [Semantic Scholar](#) (a free search engine developed by the [Allen Institute for AI](#))
- [Dimensions](#) (a commercial scholarly search platform, the free version includes searching in publications and datasets only)

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
192 PDF View on Springer Save Alert 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
TLDR Based on results of pilot scale research with source-separated black water (BW) and grey water (GW), a new sanitation concept is proposed and the total energy saving amounts to 200 MJ/year in comparison with conventional sanitation. Expand
151 View on PubMed Save Alert Cite

Semantic Scholar: <https://www.semanticscholar.org/>

"waste water" OR "grey water" Free text in full data Save / Exp

PUBLICATIONS	DATASETS	GRANTS	PATENTS	CLINICAL TRIALS	POLICY DOCUMENTS
453,634	2,088	4,347	904,189	13	13,694

Show abstract Sort by: Citations

Title, Author(s), Bibliographic reference - About the metrics

Standard methods for the examination of water and waste water.
F W Gilcreas
1966, American Journal of Public Health and the Nations Health - Article
Citations 11k Open Access Add to Library

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

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

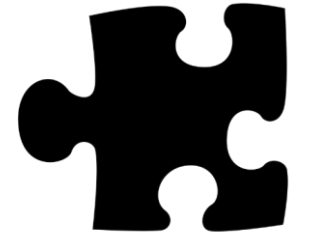
- Follow key scholars and institutions in your research field
- Preprint servers ([arXiv](https://arxiv.org), [bioRxiv](https://bioRxiv.org), others): articles published before peer review
- Conference papers, conference proceeding books
- Informal exploration of early-stage ideas: blogs, social networks,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

The screenshot shows the arXiv.org website interface. At the top, there is a Cornell University logo and a navigation bar with a search box, a dropdown menu for "All fields", and a "Search" button. Below the navigation bar, there is a "COVID-19 Quick Links" section with a red border, containing a warning about preprints and links to arXiv and medRxiv. The main content area features a "Subject search and browse:" section with a dropdown menu currently set to "Computer Science". A list of subjects is displayed, including Physics, Mathematics, Quantitative Biology, Computer Science, Quantitative Finance, Statistics, Electrical Engineering and Systems Science, and Economics. Each subject has a list of sub-topics and links to "new", "recent", and "search" pages. For example, under "Physics", there are sub-topics like "Astrophysics", "Condensed Matter", "General Relativity and Quantum Cosmology", etc. The "Mathematics" section is partially visible at the bottom.

<https://arxiv.org/>

5. READING & ORGANIZING RESOURCES

Writing & Reading



- What is the current state-of-the-art in my field?
- Who are the top researchers?
- How does my work fit into the research corpus?



Read

Reading: Smart, Careful, Mindful

- Be smart and picky. Focus on abstract, conclusion, and specific issues (e.g., research design) before reading the whole paper
- Make notes from the very beginning; it will save your time later
- Create your own system to organize materials and thoughts
- Get familiar with writing and citing habits in your field

Managing Resources

- Be systematic: organize your resources and their citations
- Ranking system option for evaluating usefulness
- Notes about the relationship to your work (methodology, contradictory or confirmatory conclusions, and so on)
- Electronic or written notes

Research paper

An evaluation and explanation of (in)efficiency in higher education institutions in Europe and the U.S. with the application of two-stage semi-parametric DEA

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Gdańsk University of Technology, Faculty of Management and Economics, Narutowicza 11/12, 80-233 Gdańsk, Poland

ARTICLE INFO

ABSTRACT

In this study the technical efficiency of number of public European and American HEIs is assessed over a decade. Efficiency scores are determined using nonparametric DEA with different input-output sets and considering different frontiers: global frontier (all HEIs pooled together), regional frontier (Europe and the U.S. having their own frontiers) and country-specific ones. The external factors affecting the degree of HEI inefficiency are also investigated, e.g. institutional settings (size and department composition). Specifically, the results indicate a positive association between both regions' departments and an institution's efficiency (for both the European and European HEIs are more efficient, but this is not confirmed for American HEIs). However, some country heterogeneity at the European level is found.

1. Introduction

Numbers are meaningful: according to the Academic Ranking of World Universities¹ 2016 fifteen of the top twenty universities were in the U.S., Americans published 23% of the total number of scientific articles in the period 1996–2013, counting 33% of the total citations.² This is perceived in the literature as the transatlantic gap – referring to the differences between Europe and the U.S. in the quality of academic research (Bonaccorsi et al., 2017). Because of this, it is not surprising that the American system of higher education is perceived to be pre-eminent and when higher education institutions (hereafter, HEIs) around the world are searching to improve their performance they look to universities in the U.S. as their benchmark model, while scholars from the whole world are attracted to American academia (Choffler, 2010). However, from the internal American perspective, the higher education sector is not free of problems, and its worldwide dominance has also recently been challenged (Altbach et al., 2011). Nowadays, HEIs in both continents are under pressure due to declining public support, resulting in the need to seek external resources and to provide first-class teaching and research in order to survive amid local and global competition.³

This study has three main aims: firstly, to compare the technical efficiency of European and U.S. higher education institutions. Secondly, to evaluate the main factors that determine the efficiency of HEIs and to test whether these factors might have varying impacts on the European and U.S. efficiency. Thirdly, to address an evaluation problem, introducing DEA techniques as an analytic tool which can serve both HEIs' managers and policymakers.

Data envelopment analysis (DEA) is used in this study – a methodology which constructs a production frontier in the multi-input/multi-output case – in order to evaluate the relative efficiency of a sample of 500 higher education institutions (in ten European countries and the U.S.) for the period between 2000 and 2012. Different models are estimated for different input-output sets and assumed frontier: global, regional and country-specific ones.

The research is motivated by the fact that most previous studies

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Annotations:

- 25/11/2020 18:47:49: Nadezda Firso, Options - DEA - metodika
- 25/11/2020 18:47:00: Nadezda Firso, Options - Bariery, 3 modele
- 25/11/2020 18:48:46: Insert Text, Options - Zkontrolavat zdroje pro rešerši

Example of electronic notes

When stereotypes meet robots: The double-edge sword of robot gender and personality in human–robot interaction

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²Division of Communication Research, Yonsei University School of Communication and Information, Yonsei University, Seoul, South Korea
³Department of Industrial & Information Systems Engineering, Soongsil University, Seoul, South Korea

ARTICLE INFO

Article history:
Available online 14 June 2014

Keywords:
Human–robot interaction
Social robot
User acceptance
Social stereotypes
Robot gender
Robot personality

ABSTRACT

With the emerging application of social and psychological effects of occupational roles (security vs. extrovert vs. introvert) on user acceptance of a 30 two different roles of a healthcare and security robot. During the task, the robot manifested different personality-occupational role stereotypes. This finding shows that participants (n = 164) preferred the robots do not monotonically influence user responses to affect user acceptance of social robots. Results lay a foundation for designers to reduce various parameters under the big umbrella of social robot personality.

1. Introduction

The role of social robots has increasingly become diversified when compared to industrial robots that perform monotonous and repetitive tasks in factory settings. In accordance with the rapid development of relevant technologies and the increasing demand for human resources in social settings, robots are expected to play roles that are generally filled by humans in a variety of social contexts including the home, museums, subways, airports, and hospitals (Lee, Kessler, & Fortizzo, 2011). Public acceptance of social robots, however, is not simple since successful social robots require a good mixture of state-of-the-art technology and a capacity for friendly social interaction. Among various issues concerning human–technology interaction, user acceptance has been identified as a key element for successful implementation of social robots (Ecker, Fink, & Rogers, 2009; Hertrich, Möller, Finken, & Wissinger, 2010). Along these lines, interest has recently been rising for the development of socially interactive robots that can accurately mimic human characteristics. This dimension of research aims to develop natural and intuitive human–robot interactions to facilitate user acceptance. One such attempt is to design humanoid robots with human features as well as androids that are aesthetically similar to real human beings. In addition, researchers have started to apply social characteristics in the design of social robots, exhibiting a natural gaze, gestures, and distinctive personalities (Hwang, Park, & Hwang, 2013; Looije, Neerinx, & Grooten, 2010).

In spite of the preliminary success in anthropomorphizing robots, simply applying human characteristics to social robots may cause aversive and repugnant psychological responses. For instance, Mori's Uncanny Valley (1970) suggests that human responses toward human-like robots can be repulsive when these robots look and act almost, but not perfectly, like human beings. In other words, when robots become or behave human-like, people start to pay more attention to the subtle differences between the robots and human beings rather than the great resemblance between the two, and this tends to trigger negative responses from people. As such, human social characteristics blindly applied to social robots could negatively influence people's perceptions toward social robots, under certain circumstances (Eysenck & Hegel, 2012).

Annotations:

- DOBRY ZDROJ POUŽIT V PRAKTICKE CRKSTI!
- LESJ STEREOTYPN ZOBRAZOVANI ROBOTU V LIDSKYCH PROFESIACH + LEANKE RESPONDENTU
- NEZNAM PŘEJST
- RODPOUSE/ VYBACI MĚU MŤLENUU
- CITACE

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

[Zotero](#)

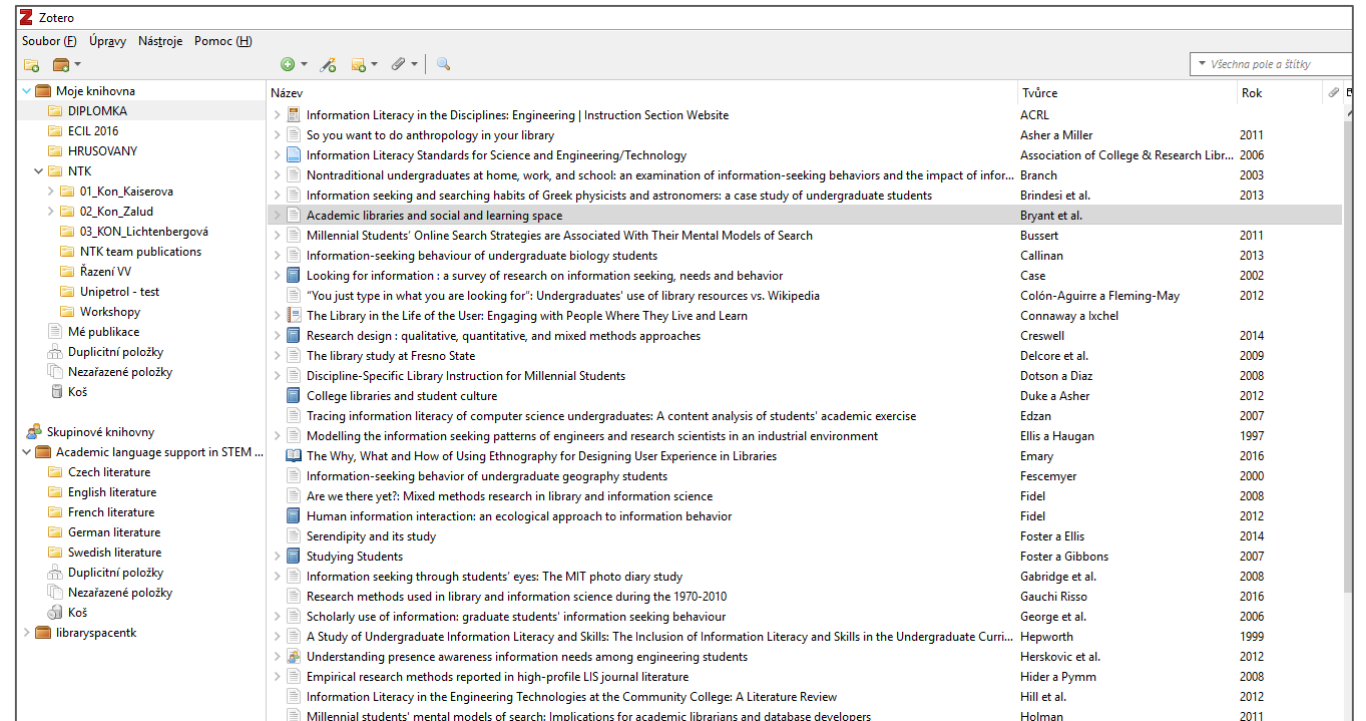
[CitacePRO](#)

[Mendeley](#)

[Citavi](#)

[JabRef](#) (integrated with LaTeX)

[EndNote](#) (subscription for UCT students)



Use them, but don't trust them absolutely!

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

How to Find High-quality Journals and Conferences

- Ask your mentor and/or peers
- Use citation and analytical databases to identify reliable journals and conferences: [Web of Science](#), [Scopus](#), [Inspec Analytics](#)
- Try recommender services such as those from [Elsevier JournalFinder](#), [WoS Manuscript Matcher](#)
- Look for conferences specifically intended for doctoral candidates in order to gain experience presenting in English (e.g., [ECRF-ICSA](#), [DOKBAT](#))
- Read tips about [avoiding predatory and questionable conferences](#)

Eaton, S.E. (2018). Avoiding predatory journals and questionable conferences: A resource guide. *University of Calgary*.

<https://files.eric.ed.gov/fulltext/ED579189.pdf>

Palmer, J. C. (2016). Navigating your first academic conference. *Psychological Science Agenda*.

<https://www.apa.org/science/about/psa/2016/10/academic-conference>

Choosing the Right Journal or Conference

- Consider relevance of the conference to your field as well as its intended audience
- Review its quality & reputation (journal metrics, editorial board, conference organizers, mentor recommendations)
- Review the [peer-review process](#) and author services provided
- Investigate discoverability (e.g., can the journal or conference be easily found online)
- [Open Access](#), [Open Data](#)
- Article processing charge (APC) and other costs and benefits of submitting an article or attending the conference
- Learn whether you can submit the same content to multiple journals or conferences at the same time (or not)

Northcentral University Library (2021). *Research Process: Scholarly Publication*.

<https://ncu.libguides.com/researchprocess/scholarlypublication>

Berkeley Library. (n.d.) *Scholarly Publishing*.

<https://www.lib.berkeley.edu/scholarly-communication/publishing>

UNC University Libraries. (2021). *Measure Your Research Impact: Where to Publish*.

<https://guides.lib.unc.edu/measure-impact/publish>

Summary

- Activate **Library links on Google Scholar**
- Always make sure you are logged into the library web for **off-campus 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

Schedule a [consultation](#):

- Please don't be shy; [our team](#) includes doctoral students who know the issues you face.
- We also provide consultations about creating a comprehensive search strategy and organizing yourself as you begin a specific writing project.

Useful links:

- [STEMskiller](#) - comprehensive skills set map for early career researchers
- [LaTeX support](#)
- [Bibliometric services](#)
- [Subject guides](#)



NTK webinars

12.4.	15:00 – 16:30	My First Scientific Article
19.4.	15:00 – 16:00	Academic Integrity
26.4.	15:00 – 16:30	Introduction to Web of Science & Scopus
3.5.	15:00 – 16:30	WoS and Scopus: Use Citation Databases to Foster your Research
10.5.	15:00 – 16:00	Academic Online Presence

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Thank you

Questions?