

Finding literature for your master thesis

Welcome to the library

IFI master week 2, January 2022

Photo: Simen Kjellin



Subject specialists



Anna Kathinka Dalland Evans
Informatics & Physics



UiO • University of Oslo Library
Library of Medicine and Science

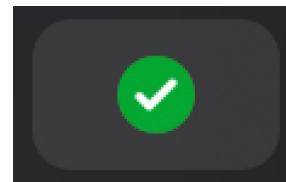


Line Akerholt
Astrophysics



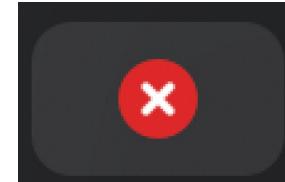
Tone Gadmar
Chemistry

Have you written a text at university level with a bibliography (list of references) before?



Yes

or



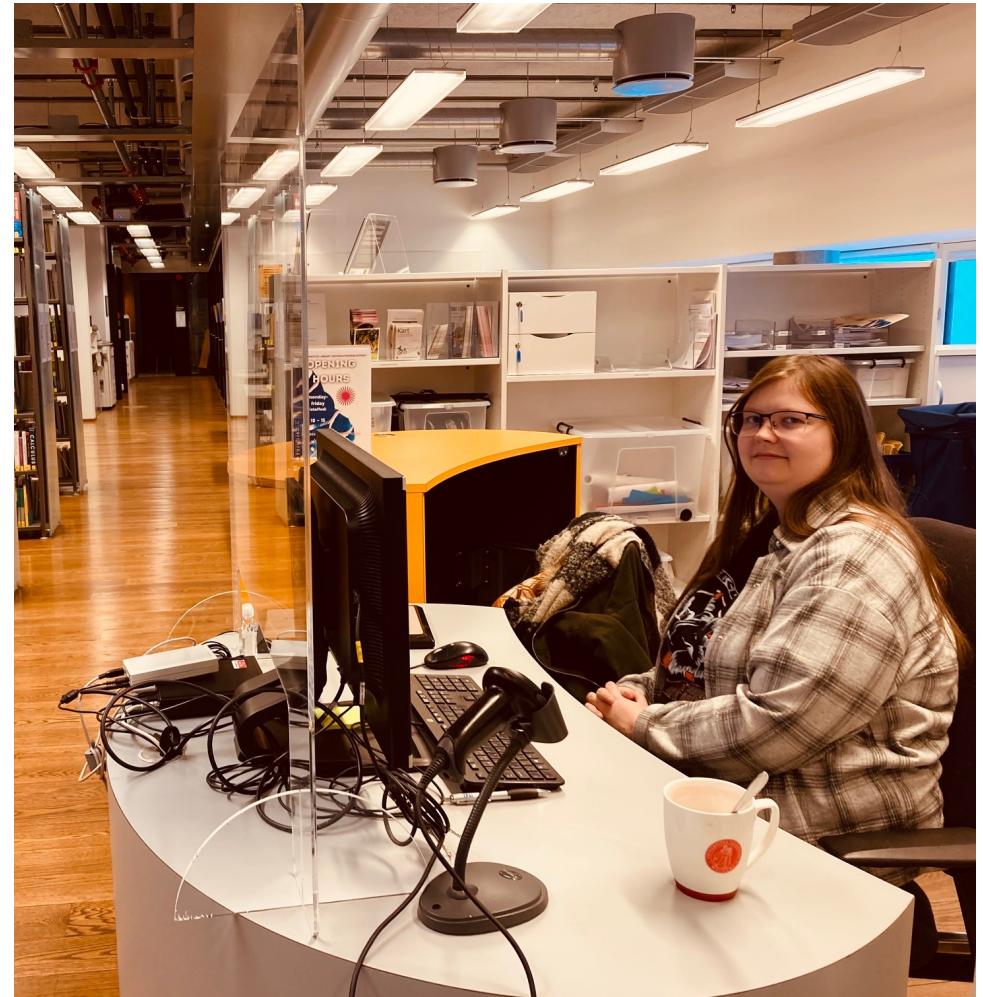
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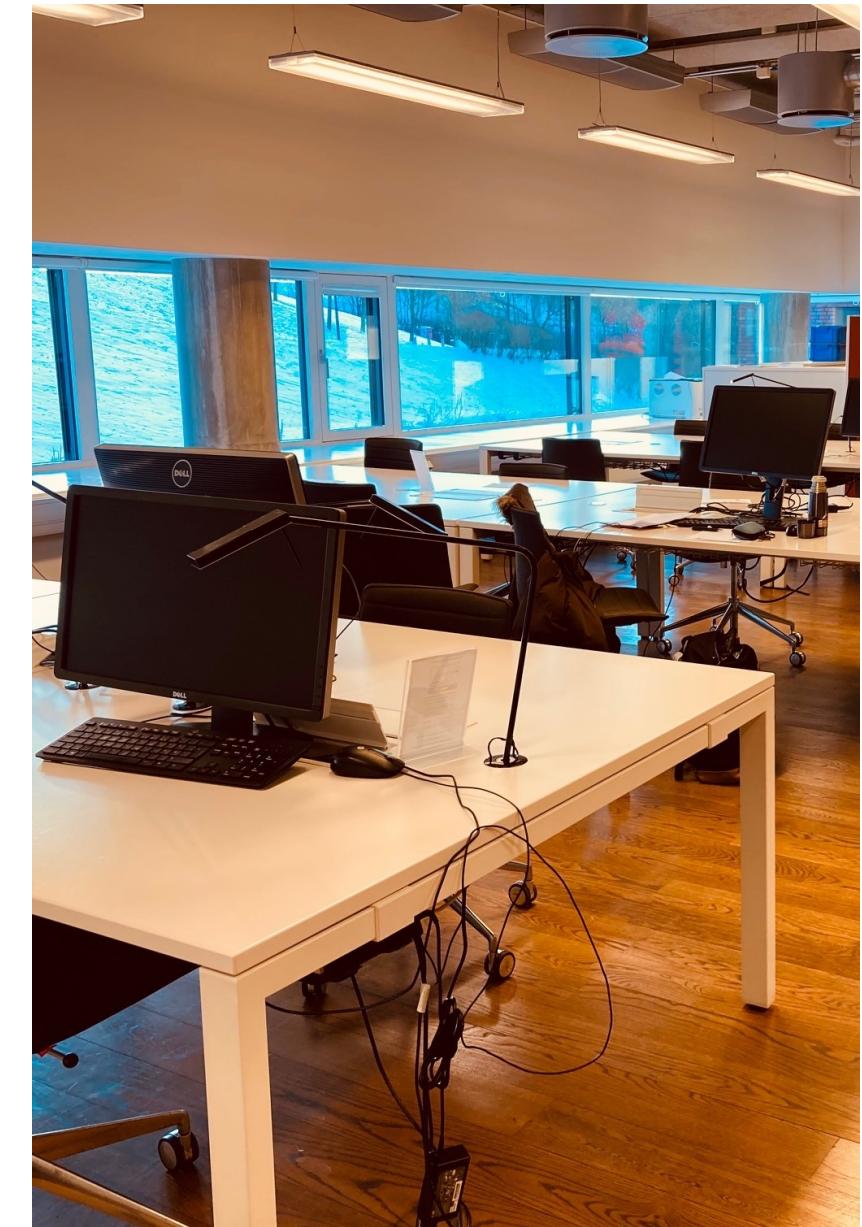
?

What we offer

- Librarians!







What we offer

- Librarians!
- Places to study
- You can also borrow: headphones, project kits, raspberry circuit boards, some chargers ++



What we offer

- Librarians!
- Places to study
- You can also borrow: headphones, project kits, raspberry circuit boards, some chargers ++
- Seminar rooms for groups of > 1
- Computers (PC & Linux)
- Printer
- Small kitchen (bring your own coffee)
- Events and exhibitions

How to find us?

Our door is open!

Ground floor, Ole-Johan Dahls hus

Staffed: 10 – 15 (Mon – Fri)

Access with student card and
pin code: 05 – 24 (Mon – Sun)



<https://ub.uio.no/informatics>

University of Oslo Library

[← Subjects](#) [← Natural Sciences and Technology](#)

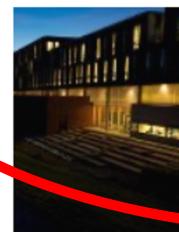
Subject page for informatics

Find books, articles, journals
etc.

Books, journals, articles etc. - print & elec 

[Oria help](#) [Go to Oria](#)

Contact



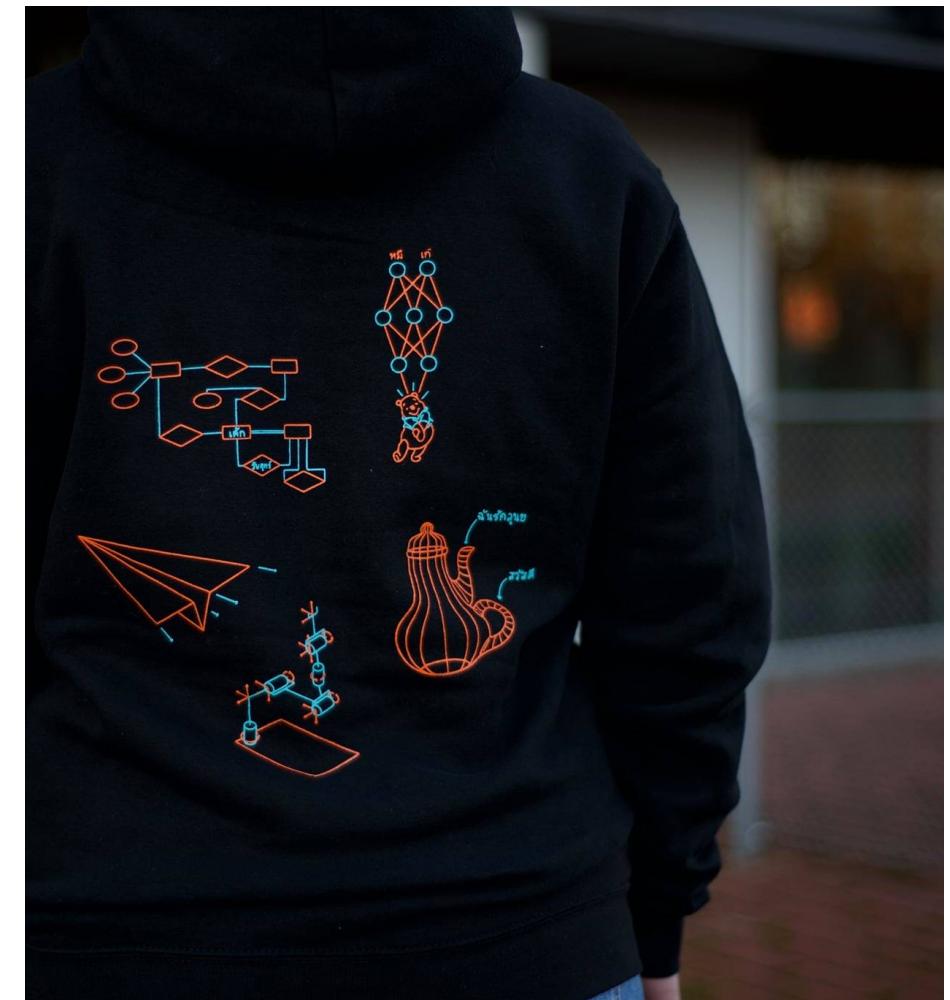
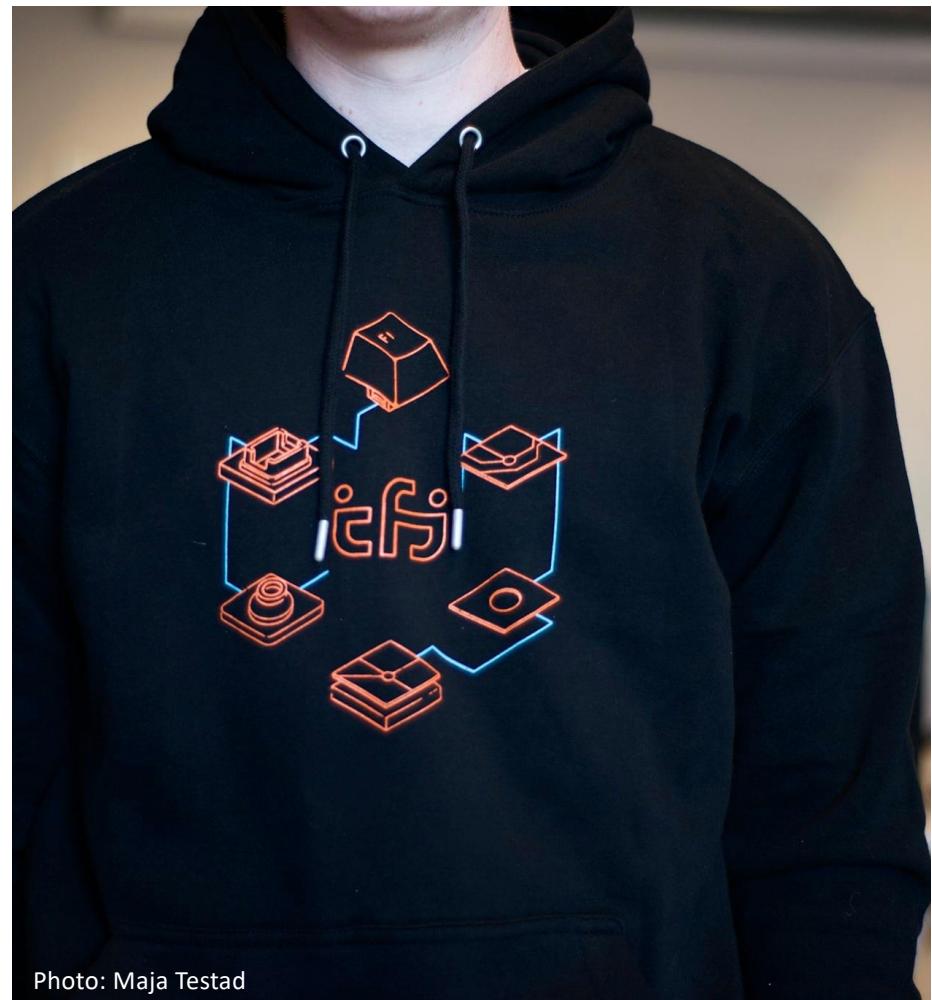
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How to find us?



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What's next:

Tone on critical
source review

Line on
literature search

Building a larger structure



Picture source: Chrisyatesstudios 2012

Claim: «The Hg concentration in freshwater fish is increasing»



Picture source MillaTom 2004

Scientific publications are full of references!

- To explain the **motivations** for the study
- To explain the **background** theory
- To provide **information** on methods
- To provide **technical** details
- To **interpret** and **discuss** research results
- To **compare** with the results of others
- To point out **significance** of the conclusion

What is a good source?

Can we put up some quality criteria?

To get to the right information ...

- When we search our goal is not to end up with “a suitable amount of sources”,
 - ... not too many and not too few ...
 - But to get to the **best** sources for our purpose
-
- We call the process of selecting the best sources **Critical Source Review**

Critical source review (*kildekritikk*)

Four questions to keep in mind:

- Reliability of the source?
- Objectivity of the source?
- Accuracy of the source?
- How suitable is the source?

In Norwegian:

- Troverdighet
- Objektivitet
- Nøyaktighet
- Egnethet

Scientific quality control,
availability, independence

= TONE

Out on the “treasure hunt”

Constructive search?

What is that?

What do you need information about?

Define what you are looking for

- And search in the best places

*«If you don't know where you are going,
any road will take you there.»*

(‘Alice in Wonderland’, Lewis Carroll 1865)

It is you who should be in the driver's seat!



Picture source: Kjetil Ree 2010

What is a good database?

- Known provider (identity, unbiased agenda)
- Known (and relevant) content (no secrets!)
 - What is in?
 - What is not?
- Indexed end quality ensured information
- Strong user operated search engine
- User chosen priority of hits - transparency
- Step-by-step narrowing down on hits

Scientific information search

- Overview; new topic
- Earliest or newest publications
- Publication “history” of a topic
- Broad / overview or narrow / details
- Finding other expert groups
- Controversies; convergence or divergence
- Multi-disciplinary studies

Search fast or search for quality?

Google / Wikipedia



Picture source: Ayelie 2007

Instant coffee

Scientific databases



Picture source: Popo le Chien 2017

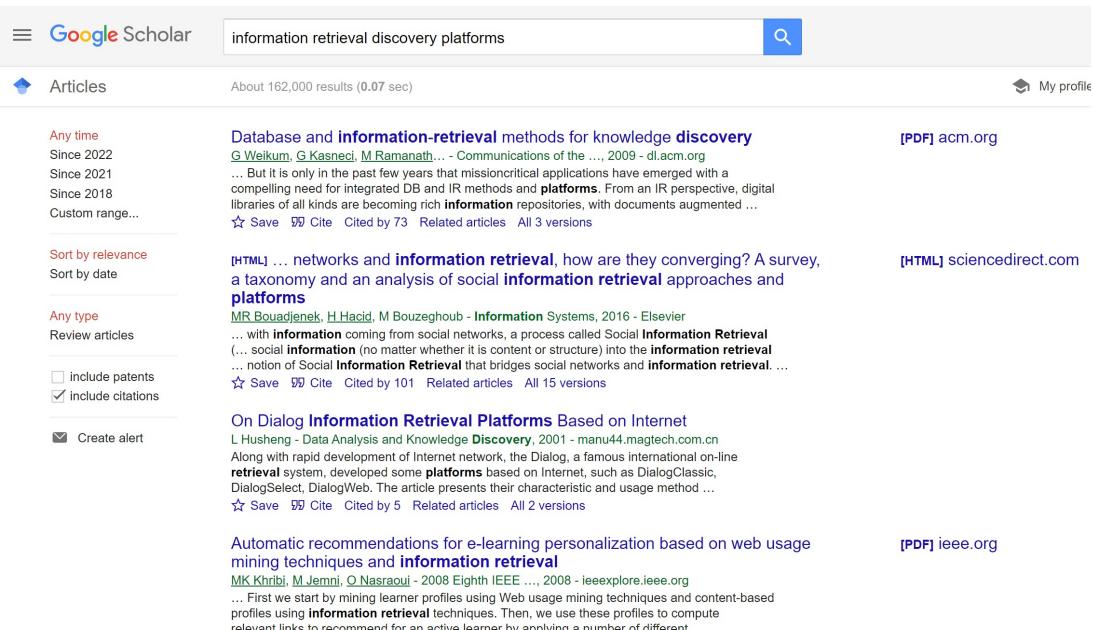
Quality beans

Tracing the article

- (Preprint published on arXiv)
- Article published by Publisher or Society – on their platforms
- Article indexed by
 - Subject databases (metadata added)
 - Citation databases (metadata added)
- Article available on Library Discovery platforms (oria)
- Copy deposited in institutional archive (duo.uio.no)
- (researchers add articles on other platforms)
- Search engines like Google finds the article on several of these

Google / google scholar

- Perfect for the instant information needs!
- Many bibliographic databases have made their indexes available for google
- But what about the origins of the «coffeebeans»?
 - Five versions of the same article – which do you cite? – and metadata is lost on the way!
 - The metadata is not always good enough / combined wrong



The screenshot shows the Google Scholar search interface. The search query 'information retrieval discovery platforms' is entered in the search bar. The results page displays three search results, each with a title, a brief abstract, and links to PDFs or HTML versions. The sidebar on the left includes filters for time (Any time, Since 2022, Since 2021, Since 2018, Custom range...), sorting (Sort by relevance, Sort by date), and article type (Any type, Review articles). It also features checkboxes for 'include patents' and 'include citations' and a 'Create alert' button.

Result Title	Source	Actions
Database and information-retrieval methods for knowledge discovery	[PDF] acm.org	Save, Cite, Cited by 73, Related articles, All 3 versions
[HTML] ... networks and information retrieval, how are they converging? A survey, a taxonomy and an analysis of social information retrieval approaches and platforms	[HTML] sciedirect.com	Save, Cite, Cited by 101, Related articles, All 15 versions
On Dialog Information Retrieval Platforms Based on Internet	[PDF] ieee.org	Save, Cite, Cited by 5, Related articles, All 2 versions

Artikler

Omtrent 19 600 resultater (0,09 sek)

Når som helst

Etter 2022

Etter 2021

Etter 2018

Egendefinert periode

Sorter etter relevans

Sorter etter dato

Alle typer

Oversiktartikler

 ta med patenter inkluder sitater Opprett varsel[\[PDF\] Design practice in **human computer interaction** design education](#)[AL Culén, H Mainsah, S Finken - 2014 - aho.brage.unit.no](#)

... There is an increased movement towards informing and embedding education practices from other disciplines into **Human Computer Interaction** (HCI). This is especially true when it comes to design practice and design pedagogy [1]. Many authors have stressed a need for ...

☆ Lagre Referanse Sitert av 24 Beslektede artikler [Alle 5 versjoner](#)

[\[PDF\] unit.no](#)[Sig nime: music, technology, and **human-computer interaction**](#)[F Bevilacqua, S Fels, AR Jensenius, MJ Lyons... - ... Factors in Computing ..., 2013 - dl.acm.org](#)

... for the study of **human-computer interaction** to join us for a discussion on the past, present, and future of **interaction** and music technology. ... While the specific shared interests of the anticipated SIG participants are music and **human computer interaction**, we aim to attract a ...

☆ Lagre Referanse Sitert av 19 Beslektede artikler Alle 4 versjoner

[\[PDF\] uiø.no](#)[Explaining roles in software systems](#)[E Litovchenco - 2015 - duo.uiø.no](#)

... The thesis is written within **Human-computer interaction** (HCI) and will use HCI terms and concepts. The case has been given by Visma Software International, with the purpose of creating instructions for software roles with a user centered focus. The main contribution is ...

☆ Lagre Referanse

[\[PDF\] Design, Creativity and **Human Computer Interaction** Design Education](#)[AL Culén, HN Mainsah, S Finken - Journal on Advances in Life Science, 2014 - Citeseer](#)

... There is an increased movement towards informing and embedding education practices from other disciplines into **Human Computer Interaction** (HCI). We have discussed in our paper [1] how design practice and design pedagogy may contribute to HCI education. ...

☆ Lagre Referanse Sitert av 6 Beslektede artikler Alle 5 versjoner

[\[PDF\] psu.edu](#)

← → C emerald.com/insight/content/doi/10.1108/09504121211251880/full/html

Apps Alma Digital suppo... Filer - Media Formathandbok - A... E-postlister ved Ui... GammelCristin Other bookmarks

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Welcome Guest user

Enter your search terms here  Advanced search

Home / Journals / Reference Reviews / Volume 26 Issue 6 / The SAO/NASA Astrophysics Data Service

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The SAO/NASA Astrophysics Data Service

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Reference Reviews

ISSN: 0950-4125

Article publication date: 3 August

2012

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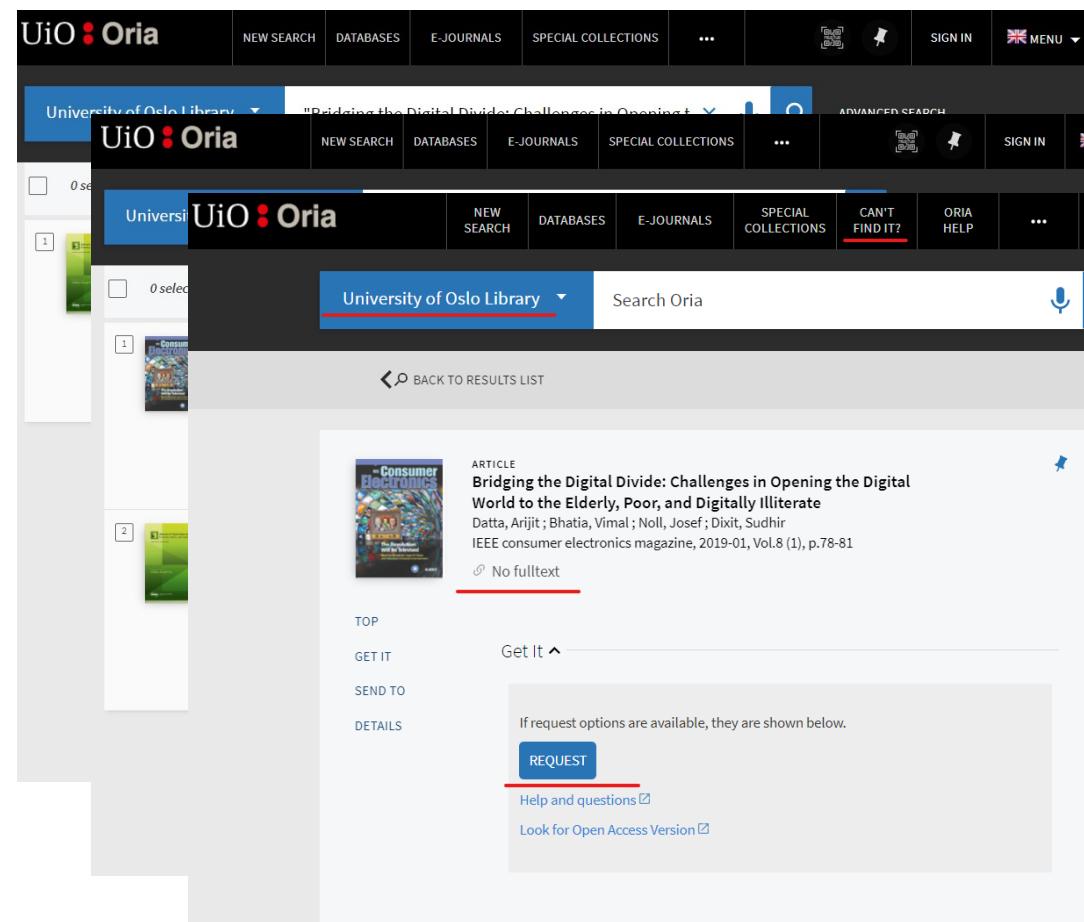
Keywords

Astronomy Astrophysics Electronic media

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@article{culendesign,  
  title={Design Practice in Human Computer Interaction Design Education},  
  author={Cul{'e}n, Alma L and Mainsah, Henry N and Finken, Sisse},  
  publisher={Citeseer}  
}
```

uiu.oria.no (the Primo discovery service)

- This is the UiO Library collections!!!
 - Safe source for correct access – books (print and e) and articles (e) – Leganto is part of this!
 - Only source for the joint book-collections/access
 - Too many hits?
 - Refine (add search terms, use more specific terms)
 - Filters
 - No hits / Access?
 - choose the scope “norwegian academic libraries”
 - Use the checkbox «Expand beyond library collections»
- It is easy to order a copy via the library!



The screenshot shows the UiO:Oria Primo discovery service interface. At the top, there are two search bars: one for "University of Oslo Library" and one for "Search Oria". Below the search bars, a search result is displayed for an article titled "Bridging the Digital Divide: Challenges in Opening the Digital World to the Elderly, Poor, and Digitally Illiterate". The article is from the IEEE consumer electronics magazine, 2019-01, Vol.8 (1), p.78-81. The authors are Datta, Arijit; Bhatia, Vimal; Noll, Josef; Dixit, Sudhir. A note indicates "No fulltext". On the left, there is a sidebar with options: TOP, GET IT, SEND TO, and DETAILS. On the right, there is a "Get It" button and links for "REQUEST", "Help and questions", and "Look for Open Access Version".

Databases from societies and associations

- ACM and IEEE are known bodies for information scientists
- Hosts many journals and conferences!
 - ACM <https://dl.acm.org/> (includes ACM guide to Computing literature – “the most comprehensive bibliographic database focused exclusively on the field of computing”)
 - IEEE <https://ieeexplore.ieee.org/> (30% of publications – a claim on the IEEE wiki-article)
- **Important** – includes a lot, but not all! Beware if you choose this as your preferred gateway
- **Publisher platforms** have the same issues – a bias that they promotes their own publications

The image shows two screenshots of academic databases. The top screenshot is the ACM Digital Library homepage, featuring the ACM logo, a digital library icon, and the text 'Association for Computing Machinery'. It includes links for Journals, Magazines, Proceedings, Books, SIGs, Conferences, and People, along with a search bar for 'Search ACM Digital Library'. The bottom screenshot is the IEEE Xplore Advanced Search interface, showing the IEEE Xplore logo and links for IEEE.org, IEEE Xplore, IEEE-SA, IEEE Spectrum, and More Sites. It includes search fields for 'Search items from' (set to 'The ACM Full-Text collection'), 'Search Within' (set to 'Anywhere'), and 'Filters' (set to 'Published in'). The search bar at the top of the page also includes 'All' and a dropdown menu. The overall layout is clean and professional, typical of academic research databases.

Subject databases

- **PubMed** (medicine, biomedicine, bioinformatics)
- **MathSciNet** (mathematics)

J Hosp Infect. 2021 Sep;115:59-63. doi: 10.1016/j.jhin.2021.05.017. Epub 2021 Jul 20.

PMID: 34098050 [Free PMC article.](#)

FULL TEXT LINKS

ELSEVIER
FULL-TEXT ARTICLE

PMC FREE Full text

ACTIONS

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MeSH terms

- Adult
- COVID-19 / epidemiology
- COVID-19 / transmission*
- Female
- Genome, Viral
- Health Personnel / statistics & numerical data*
- Humans
- Infectious Disease Transmission, Patient-to-Professional / statistics & numerical data*
- Male
- Middle Aged
- ..

Citation databases

- Created to let the user navigate between related articles
- Strict criterias for what is included
- Web of Science
- Scopus
- Very good level of metadata, good export of reference-data

Soft start: «investigate» the friendly way!

- Check the bibliographies of some ifi-professors
 - Use the channels described in this lecture (google / scholar, oria, one of the subject databases if relevant, the citation databases ...)
 - In addition: The Norwegian academic publication report system **Cristin** (most person-pages @uiu is linked to a feed from Cristin)
- Discover the field “best practice”: perform the same search across channels and spot the differences
 - perfect for procrastination!

Strategies for your essay and thesis

- Snowballing references
 - If you have one relevant article, use the reference list to find others back in time or forward in time – with the help of «cited by»
- Find your «scope» of keywords
 - Use subject databases, article headings (keywords often listed on the title page after abstract)
- Use the controlled vocabularies / thesauri in the databases = structured search
- Remember to check regularly for new publications (but not the last month...)

Help to remember

- **Google**
 - instant coffee – quick and coffeirush
- **Google scholar**
 - nicer instant coffee, but much lost in the refining process
- **Oria**
 - mixed coffee pods – some control, but cheap pods also. Books about coffee
- **Society databases**
 - one producer only
- **Subject databases**
 - carefully selected pure blends
- **Citation databases**
 - records of all existing blends, and which inspired which
- **Archives**
 - a good copy / or the manuscript for the original cup of coffee, but you need to taste the original to recommend it

- [15] F. Zwicky. Die Rotverschiebung von extragalaktischen Nebeln. *Helvetica Physica Acta*, 6:110–127, 1933.
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- [31] H. Hoekstra and D. S. Schlegel. Weak gravitational lensing. *Phys. Rep.*, 340:291–472, January 2001.

Your reference list:

How to get help

- **Zotero:** Can be used with either Word, Google docs, Libre Office and Latex, introduction by Solveig Sørbø earlier today
- **Endnote:** Often used with Word
 - Courses offered from the library: 20.1., 17.2, 31.3. from 15:15 – 17:00
 - **Register here:** <https://www.ub.uio.no/english/courses-events/courses/study-programs/mn/master/informatics-endnote>
- **Biblatex:** Intro by Dag Langmyhr later today, used with Latex.
- **Drop-in sessions**
- **Contact us:** Informatikkbiblioteket@ub.uio.no

Our best advice

- We can help you at the library!
 - BUT don't wait until the last minute...
- Start early
 - Small fixes can take a long time



Photo: Brett Jordan/ Unsplash

Invitation to Master students

Join the UiO iGEM-team 2022



Send e-mail to
k.b.haraldsen@ub.uio.no
for questions and application
Feb 1st



Image references

- Opening photo from the Informatics Library: Simen Kjellin
- Subject specialists, Portraits: UiO
- Picture, Pike: Wikimedia, by MillaTom 2004, CC BY-SA, fil:Hecht.jpg
- Picture, Puzzle: Wikimedia, by Chisyatesstudios 2012, CC BY-SA, fil:Ignis-spindle-fin12.jpg
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- Slide 29: exported reference from Google scholar
- Slide 30: uio.oria.no
- Slide: 31: dl.acm.org and ieeexplore.ieee.org
- Slide 32: <https://pubmed.ncbi.nlm.nih.gov/>
- Picture, Reference list: Anna Kathinka D. Evans
- Picture, Ask for help: Photo by [Brett Jordan](#) on [Unsplash](#)