

Into the research literature

- Encyclopedias
- Handbooks
- Reference lists
- Full text databases
- Reference databases
- Citation databases

Veien til faglitteraturen

- Leksika
- Håndbøker
- Litteraturlister
- Fulltekstdatabaser
- Referansedatabaser
- Siteringsdatabaser

Starting point– 1 special encyclopedias

- *Encyclopedia of computer science*
- *Encyclopedia of computers and computer history*
- *Encyclopedia of cryptography and security*
- *Encyclopedia of data warehousing and mining*
- *Encyclopedia of developing regional communities with information and communication technology*
- *Encyclopedia of human computer interaction*
-

Hvor starter man - 1 Referanseverk: spesialleksika

- *Encyclopedia of computer science*
- *Encyclopedia of computers and computer history*
- *Encyclopedia of cryptography and security*
- *Encyclopedia of data warehousing and mining*
- *Encyclopedia of developing regional communities with information and communication technology*
- *Encyclopedia of human computer interaction*
-

Online encyclopedias

- [Encyclopedia of algorithms](#)
- [Encyclopedia of biometrics](#)
- Encyclopedia of cryptography and security
- Encyclopedia of multimedia
- Encyclopedia of machine learning
- Encyclopedia of database systems
- Encyclopedia of GIS
- Encyclopedia of parallel computing
- The concise encyclopedia of statistics
- Encyclopedia of optimization
- Encyclopedia of nanotechnology
- Encyclopedia of remote sensing

Leksika på nett

- [Encyclopedia of algorithms](#)
- [Encyclopedia of biometrics](#)
- Encyclopedia of cryptography and security
- Encyclopedia of multimedia
- Encyclopedia of machine learning
- Encyclopedia of database systems
- Encyclopedia of GIS
- Encyclopedia of parallel computing
- The concise encyclopedia of statistics
- Encyclopedia of optimization
- Encyclopedia of nanotechnology
- Encyclopedia of remote sensing

Starting point- 2 handbooks

- *Handbook of modal logic*
- *Handbook of optimization in telecommunications*
- *Embedded systems handbook*
- *Handbook of human factors in Web design*
- *Handbook of face recognition*
- *Handbook of graph theory*
- ...

Hvor starter man - 2 Referanseverk: håndbøker

- Handbook of modal logic
- Handbook of optimization in telecommunications
- Embedded systems handbook
- Handbook of human factors in Web design
- Handbook of face recognition
- Handbook of graph theory
- ...

Online handbooks

E-books

Springer Link

Handbook of Combinatorial Optimization
Handbook of Document Image Processing and Recognition
The Complete Handbook of the Internet
Handbook of Intelligent Vehicles
Machine Vision Handbook
Springer Handbook of Nanotechnology
Handbook of Natural Computing
Springer Handbook of Robotics
Handbook of Semantic Web Technologies
Springer Handbook of Speech Processing

Håndbøker på nett

handbook

Handbook of Combinatorial Optimization
Handbook of Document Image Processing and Recognition
The Complete Handbook of the Internet
Handbook of Intelligent Vehicles
Machine Vision Handbook
Springer Handbook of Nanotechnology
Handbook of Natural Computing
Springer Handbook of Robotics
Handbook of Semantic Web Technologies
Springer Handbook of Speech Processing

Further on: text archives, reference and citation databases, the library collection

Informatics and Mathematics
Informatics resources

What's this?

<https://www.ub.uio.no/informatics>
<https://tinyurl.com/ifibib>

Databases and other sources

References

- ACM Digital Library (subscription with fulltext)
- IEEE Xplore (subscription with fulltext)
- IEE Proceedings, covers also electronics and physics
- MathSciNet (subscription, mathematics from 1940+)

E-books

- Springer e-books (science and more)
- Lecture Notes in Computer Science (many fulltexts)
- Safari books (technical handbooks)
- Miscellaneous

Shortcuts

- Curriculum literature - check availability
- Examine your loans
- Master students tips
- Subject search
- BIBSYS Ask
- Old literature (pre 1960)

Ask us

This page contains information on literature search, writing theses, research support and more

Fortsettelsen: tekstarke røver, referanse- og siteringsdatabaser, bibliotekets samling

Informatikk og matematikk
Informatikk - fagressurser

<http://www.ub.uio.no/informatikk>
<http://tinyurl.com/ifibib>

Fagdatabaser og andre kilder

Artikkelreferanser

- ACM Digital Library (abonnement med fulltekst)
- IEEE Xplore (abonnement med fulltekst)
- IEEEproceedings (abonnement, også elektronikk og trykk)
- MathSciNet (abonnement, matematikk fra 1940+)

E-bøker

- Springer e-books (særlig m.m.)
- Lecture Notes in Computer Science (mange konferanser)
- Safari books (tekniske håndbøker)
- Annet

Snarveier

- Pensumslitteratur - sjekk utlånsstatus
- Forny lån selv
- Tips til masterstudenter
- Forskningsstøtte

English

Snarveier

- Pensumslitteratur - sjekk utlånsstatus
- Forny lån selv
- Tips til masterstudenter
- Forskningsstøtte

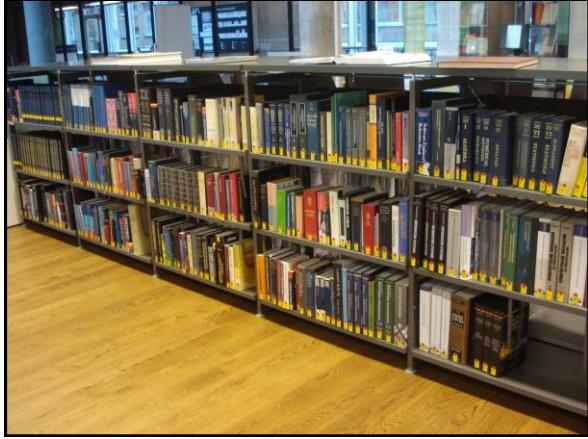
Kurs for MN-studenter

Spør oss!

Oversikt over universitetsbibliotekets veiledningstjenester. Litteratursek, oppgavebeskrivning, forskaratele og andre tjenester.

Lysarkene fra forelesninger 16 januar 2011

- Introduksjon og BibLaTeX PDF, PPT, EndNote (ppt)



"User interface" in "Encyclopedia of computer science"

- Design of a user interface
- Levels of design
- User interface management systems
- Syntactic level design: interaction styles
 - Command language
 - Menu
 - Form fill-in
 - Natural language
 - Graphical user interfaces
 - Virtual reality
 - Other issues
- Lexical level design: interaction tasks, devices, and techniques
- Input devices
- Output devices

Bibliography

1983. Shneiderman, B. "Direct Manipulation: A Step Beyond Programming Languages." *IEEE Computer*, 16, 8, 57-69.
1984. Schmandt, R., Hollan, J. D., and Norman, D. A. "Direct Manipulation Interfaces," in *User-Centered System Design: New Perspectives on Human-Computer Interaction* (eds D. A. Norman and W. Draper), p. 124. Hillsdale, NJ: Lawrence Erlbaum.
1984. Jacob, R. K. "A Specification Language for Direct Manipulation User Interfaces." *ACM Transactions on Graphics*, 3, 4, 283 - 31. http://www.eecs.tufts.edu/~jacobs/papers/tog_tx.pdf (ASCI)
http://www.eecs.tufts.edu/~jacobs/papers/tog_ps.pdf (PostScript).
1984. Foley, J. "Interactive Computer-Based Computing." *Scientific American*, 257, 4, 127-135.
1989. Hartson, H. R., and Hix, D. "Human-Computer Interface Development: Concepts and Systems for its Management," *Computing Surveys*, 21, 1, 5-92.
1989. Johnson, J. et al. "The Xerox Star: A Retrospective," *IEEE Computer*, 22, 1, 24-31.
1990. Foley, J. D., van Dam, A., Feiner, S. K., and Hughes, J. F. *Computer Graphics: Principles and Practice*. Reading, MA: Addison-Wesley.
1992. Olsen, D. R. *User Interface Management Systems: Models and Algorithms*. San Francisco: Morgan Kaufmann.
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1995. Myers, B. A. "User Interface Software Tools." *ACM Transactions on Computer-Human Interaction*, 2, 1, 61-103.
1999. Stephenson, N. *In the Beginning Was the Command Line*. New York: Avon Books.

Robert J. K. Jacob

The most frequent references you will meet:

- journal articles
- books (monography)
- chapter in a book (anthology)
- conference papers
- technical reports



Referansene du oftest kommer borti:

- tidsskriftartikler
- bøker (monografier)
- kapitler i bøker (antologi)
- foredrag på konferanser
- tekniske rapporter

How to find the document

1983. Shneiderman, B. "Direct Manipulation: A Step Beyond Programming Languages," *IEEE Computer*, 16, 8, 57–69.

• author: Shneiderman, B
• article title: Direct Manipulation: A Step Beyond ...
• journal title: **IEEE Computer**
• volume: 16
• no: 8
• pages: 57-69
• year: 1983

Variants:
- vol. 16, no. 8, pp. 57-69
- 16(1983), no. 8, pp. 57-69
- vol. 16, 57-69

A journal article: look for the journal

To find the journal:

- e-version via library home page
- or directly to the source (IEEE)
- using BIBSYS to find the paper version

Hvordan finner du?

1983. Shneiderman, B. "Direct Manipulation: A Step Beyond Programming Languages," *IEEE Computer*, 16, 8, 57–69.

• forfatter: Shneiderman, B
• artikkeltittel: Direct Manipulation: A Step Beyond ...
• tidsskrifttitel: **IEEE Computer**
• volum/årgang: 16
• nr: 8
• sider: 57-69
• år: 1983

Varianter:
- vol. 16, no. 8, pp. 57-69
- 16(1983), no. 8, pp. 57-69
- vol. 16, 57-69

En tidsskriftartikkelen: se etter tidsskriftet!

- Det er tre måter å finne fram til tidsskriftet:
- elektronisk versjon via bibliotekets hjemmeside
 - gå direkte til kilden (i dette tilfellet IEEE)
 - bruke BIBSYS til å finne papirversjon

Find via library home page

The screenshot shows a search interface for the library's catalog. The search term 'computer' has been entered. The results list includes the following items:

- Full text**: [Full text available via IEEE Xplore Journals \(IEL\)](#). Available from 1970 volume: 3 issue:5.
- Other services**: [Get help or report error in Feedback form](#).
- Holdings information**: [Find print/copy in BIBSYS](#).
- Document delivery**: [Order loan/copy in BIBSYS](#) and [Order loan/copy in BIBSYS-ORIA \(test\)](#).

Finn via bibliotekets fagside

The screenshot shows a search interface for the University of Oslo library. A red box highlights the search results for the term 'Computer'. The results include a link to 'UBO' and a 'Fulltekst' (Full text) link. Below the results, there are sections for 'Beholdning' (Storage), 'Bestill' (Order), and 'Bestill dokument' (Order document). The sidebar on the left lists categories like 'Informatikk og matematikk' and 'Informatikk - fagressurser'.

Find/Finn via IEEE Xplore

The screenshot shows the IEEE Xplore search results for the query 'shneiderman direct manipulation 1983'. A red arrow points to the search bar at the top. The results page displays a single result for Shneiderman's paper. A red box highlights the title and abstract of the paper. The sidebar on the left lists various databases relevant for computer science.

The screenshot shows the IEEE Xplore journal homepage for 'Computer'. A red box highlights the 'Past Issues' section. The page lists issues from 1970 to 2015. Below the issues, a red box highlights the citation for Shneiderman's paper.

This is a detailed view of the IEEE Xplore result for Shneiderman's paper. A red arrow points to the search bar at the top. The result shows the full citation: '1983. Shneiderman, B. "Direct Manipulation: A Step Beyond Programming Languages," IEEE Computer, 16, 8, 57—69.' A red box highlights the citation text. The bottom right corner of the image has a red circle.

... and these two ?

1986. Jacob, R. J. K. "A Specification Language for Direct Manipulation User Interfaces," *ACM Transactions on Graphics*, 5, 4, 283–31.
 1987. Foley, J. D. "Interfaces for Advanced Computing," *Scientific American*, 257, 4, 127–135.

Journal articles: look for the journals

Selected database relevant for computer science

[ACM Digital Library](#) (Full text)

Articles published by The Association for Computing Machinery (ACM) Journals and conferences from 1958-. (BibTeX, EndNote)

[IEEE Xplore](#) (Full text)

Publications from The Institute of Electrical and Electronics Engineers (IEEE) and The Institution of Engineering and I (IET). The database contains more than 2,8 million documents. The subscription is limited to 10 simultaneous users. (EndNote)

[Lecture Notes in Computer Science](#) (Full text)

LNCS covers both monographs and conference proceedings. Covers most volumes from 1(1973)-. (BibTeX, EndNote)

[Springer e-books](#) (Full text)

15000 e-books published by Springer 2005-2009. And subscription to 3000 new publications 2010-2012. (BibTeX, I

Inspec

A reference database from IET. Covers Physics, Electronics, Telecommunications, Computing, Control Technology ai

... og disse to?

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 1987. Foley, J. D. "Interfaces for Advanced Computing," *Scientific American*, 257, 4, 127–135.

Tidsskriftartikler. Se etter tidsskriftene

Selected database relevant for computer science

[ACM Digital Library](#) (Full text)

Articles published by The Association for Computing Machinery (ACM) Journals and conferences from 1958-. (BibTeX, EndNote)

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LNCS covers both monographs and conference proceedings. Covers most volumes from 1(1973)-. (BibTeX, EndNote)

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Inspec

A reference database from IET. Covers Physics, Electronics, Telecommunications, Computing, Control Technology ai

RESEARCH CONTRIBUTIONS

A Specification Language for Direct-Manipulation User Interfaces

ROBERT J. K. JACOB
Naval Research Laboratory

A direct-manipulation user interface presents a set of visual representations on a display and a repertoire of manipulations that can be performed on any of them. Such representations might include screen buttons, scroll bars, spreadsheet cells, or flowchart boxes. Interaction techniques of this kind were first seen in interactive graphics systems; they are now proving effective in user interfaces for applications that are not inherently graphical. Although they are often easy to learn and use, these interfaces are also typically difficult to specify and program clearly.

Examination of direct-manipulation interfaces reveals that they have a coroutine-like structure and, despite their surface appearance, a peculiar, highly moded dialogue. This paper introduces a specification technique for direct-manipulation interfaces based on these observations. In it, each locus of dialogue is described as a separate object with a single-thread state diagram, which can be

Informatics research

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ABCDEFGHIJKLMNOPQRSTUVWXYZ & Others Title: scientific american		<input type="radio"/> Starts with <input checked="" type="radio"/> Contains	Go
What's this? <small>Text-based interface and search results for November 14.</small>			
UBO Source: Scientific American [0036-87]			
Full text <input checked="" type="radio"/> Full text available via Nature <small>Available from 1845 volume: 1 issue:1</small> <input checked="" type="radio"/> Full text available via Making Of America Cornell Journal <small>Available from 1846 volume: 2 issue:1 until 1869 volume: 21 issue:26</small> Other services Get help or report error Feedback form			
Actions 49K <input type="radio"/> <input checked="" type="radio"/> 442 <input type="radio"/> <input checked="" type="radio"/> 553 <input type="radio"/> <input checked="" type="radio"/> 732 <input type="radio"/> <input checked="" type="radio"/> 382 <input type="radio"/> <input checked="" type="radio"/> 290 <input type="radio"/> <input checked="" type="radio"/>			

The screenshot shows a library search interface with a red box highlighting the search bar and results. The search bar contains 'Tittel: scientific american'. The results list 'UBO' as a source, with a red arrow pointing to the 'Fulltekst' link: 'Fulltekst tilgjengelig fra Nature'. Below this, it says 'Tilgang f.o.m. 1845 volum: 1 hefte:1'.

The screenshot shows a page from Scientific American, Volume 257, Number 4, 1987. The title is 'Interfaces for Advanced Computing' by James D. Foley. The text discusses how sophisticated computers will make elaborate 'artificial realities' for user-computer communication. A red box highlights the author's name and the journal information at the bottom of the page.

The screenshot shows a library catalog search interface with a red box highlighting the search parameters. The search criteria include 'in the title' with 'user interface management systems' and 'Material Type: All items'. The results list 'Tom bestilling' for 'User interface management systems' by Olsen, D.R., published in 1992.

The screenshot shows a library catalog order form for 'user interface management systems : models and algorithms' by Olsen, D.R., published in 1992. The form includes fields for 'Artikkeltitel', 'Tidsskrifttitel', 'Titel (bok)', 'Forfatter', 'ISBN/ISSN', 'Volum', and 'Kommentar'. A red box highlights the 'Bestill kopi' button. The note below states that the library can charge for photocopies if too much information is requested.

1992. Olsen, D. R. *User Interface Management Systems: Models and Algorithms*. San Francisco: Morgan Kaufmann.

A book. Order via BIBSYS.

En bok. Bestille lån via BIBSYS.

How do you get this?

The screenshot shows the 'Books + articles at UiO' search interface. A red box highlights the search bar where 'user centered system design' has been entered. Below the search bar, the results for 'User centered system design : new perspectives on human-computer interaction' are displayed, including the title, author (Hutchins, E. L., Hollan, J. D., and Norman, D. A.), year (1986), and availability information ('Available at UIO, Universitetsbiblioteket').

Hvordan får du tak i dette?

The screenshot shows the 'Beker i norske fagbibliotek' search interface. A red box highlights the search bar where 'user centered system design' has been entered. Below the search bar, the results for 'User centered system design : new perspectives on human-computer interaction' are displayed, including the title, author (Hutchins, E. L., Hollan, J. D., and Norman, D. A.), year (1986), and availability information ('Tilgjengelig fra UIO, Universitetsbiblioteket').

1989. Hartson, H. R., and Hix, D. "Human-Computer Interface Development: Concepts and Systems for its Management," *Computing Surveys*, 21, 1, 5–92.

- A. Journal article
- B. Book
- C. Chapter in a book
- D. Conference paper
- E. Technical report

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- A. Tidsskriftartikkel
- B. Bok
- C. Kapittel i bok
- D. Foredrag
- E. Teknisk rapport

1989. Johnson, J. et al. "The Xerox Star: A Retrospective,"
IEEE Computer, **22**, 9, 11–29.

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- E. Technical report

1999. Stephenson, N. *In the Beginning Was the Command Line*. New York, Avon Books.

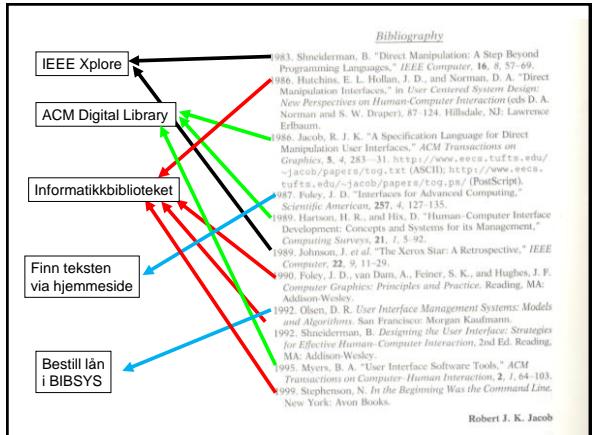
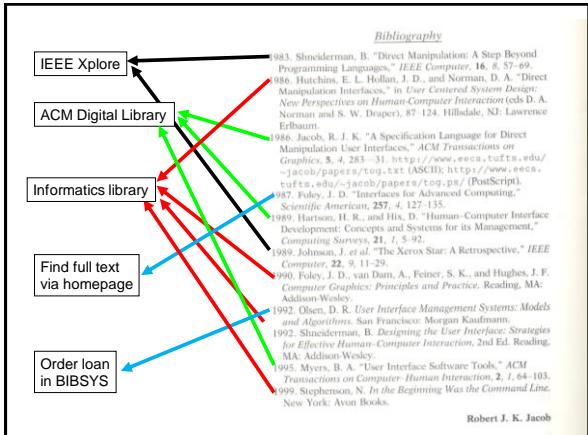
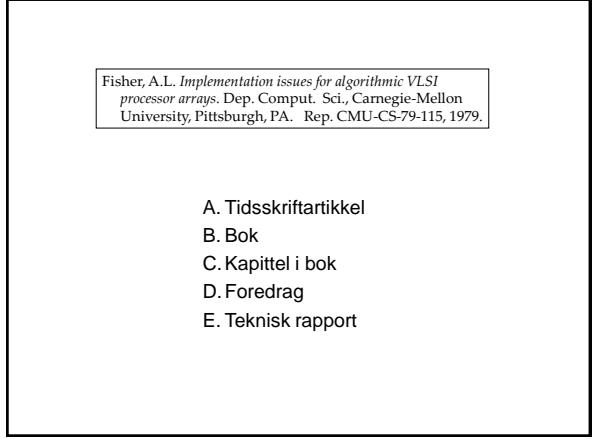
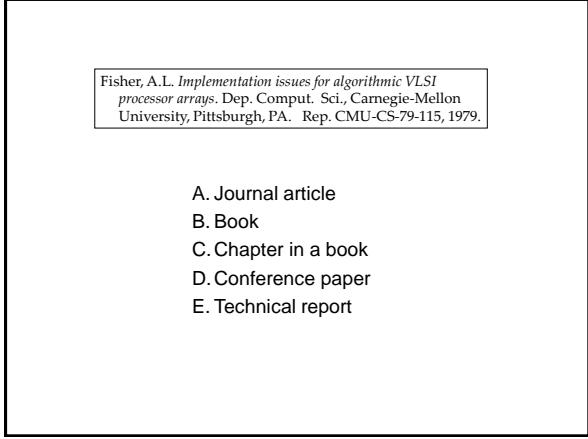
- A. Tidsskriftartikkel
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- C. Kapittel i bok
- D. Foredrag
- E. Teknisk rapport



Kva er forskjellen på ei god
og ei dårlig oppgåve

What's the difference between
a good and a bad paper?