

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

Sign up / Log in English Academic edition

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

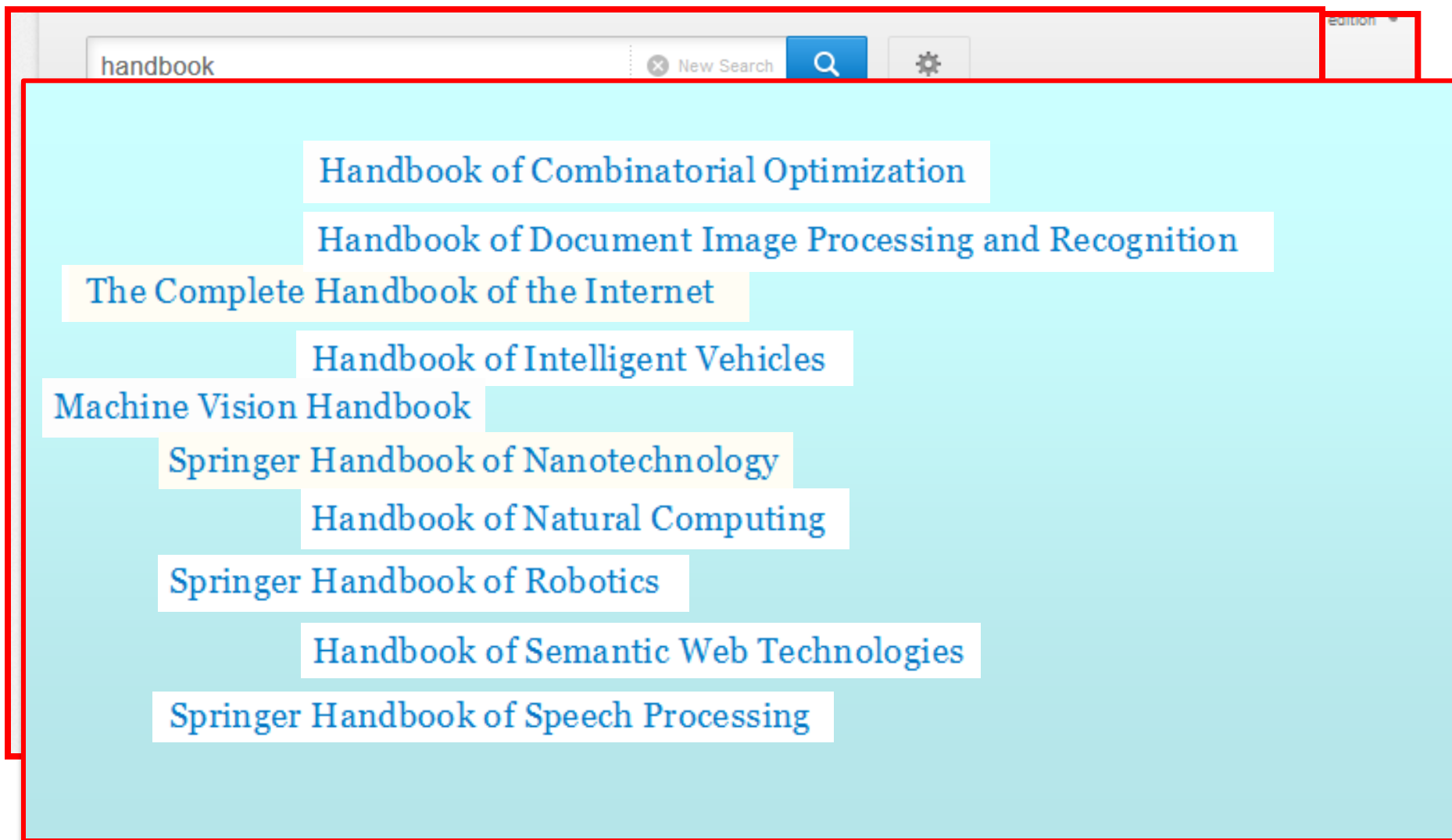
Handbook of Natural Computing

Springer Handbook of Robotics

Handbook of Semantic Web Technologies

Springer Handbook of Speech Processing

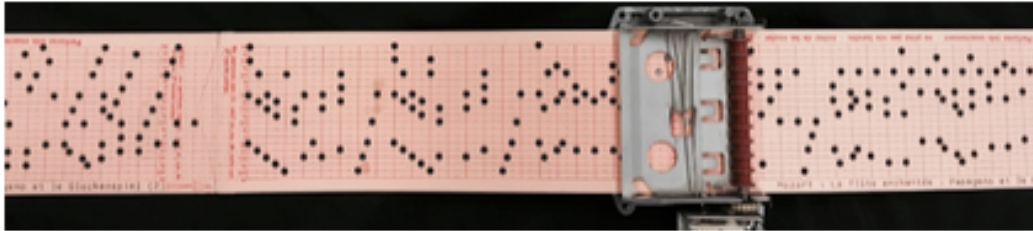
Håndbøker på nett



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

◀ Informatics and Mathematics
Informatics resources

Norwegian



What's this?

Shortcuts

- Curriculum literature - check availability
- Extend your loans
- Master students tips
- Subject search
- BIBSYS Ask
- Old literature (pre 1985)

<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)
- Inspec (subscription, covers also electronics and physics)
- MathSciNet (subscription, mathematics from 1980)

E-books

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

Miscellaneous

- Introduction and BibLaTeX: PDF, PPT
- EndNote

Ask us

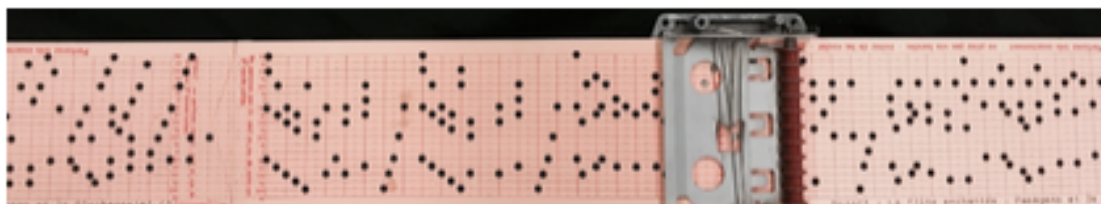
This page contains information on literature search, writing theses, research support and more.

Fortsettelsen: tekstarkiver, referanse- og siteringsdatabaser, bibliotekets samling

< Informatikk og matematikk

Informatikk - fagressurser

English



Snarveier

- Pensumlitteratur - sjekk utlånstatus
- Forny lån selv
- Tips til masterstudenter
- Emneordsøk

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

[Om \(bøker og artikler\)](#) [Databaser](#) [E-busskifter](#) [DOO \(masteroppgaver m.m.\)](#)

Tilgang utenfra, hjemmefra og på reise

Fagdatabaser og andre kilder

Artikkelreferanser

- ACM Digital Library (abonnement med fulltekst)
- IEEE Xplore (abonnement med fulltekst)
- Inspec (abonnement, også elektronikk og fysikk)
- MathSciNet (abonnement, matematikk fra

E-bøker

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

Annet

BibLaTeX

Lysarkene fra forelesninger 16.januar 2015

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

Kurs for MN-studenter →

Spør oss!

Oversikt over universitetsbibliotekets veiledningstjenester. Litteratursøk, oppgaveskriving, forskerstøtte og andre spørsmål.



"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.
1986. Hutchins, E. L. 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 S. W. Draper), 87-124. Hillsdale, NJ: Lawrence Erlbaum.
1986. Jacob, R. J. K. "A Specification Language for Direct Manipulation User Interfaces," *ACM Transactions on Graphics*, **5**, 4, 283-31. <http://www.eecs.tufts.edu/~jacob/papers/tog.txt> (ASCII); <http://www.eecs.tufts.edu/~jacob/papers/tog.ps/> (PostScript).
1987. Foley, J. D. "Interfaces for Advanced 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**, 9, 11-29.
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.
1992. Shneiderman, B. *Designing the User Interface: Strategies for Effective Human-Computer Interaction*, 2nd Ed. Reading, MA: Addison-Wesley.
1995. Myers, B. A. "User Interface Software Tools," *ACM Transactions on Computer-Human Interaction*, **2**, 1, 64-103.
1999. Stephenson, N. *In the Beginning Was the Command Line*. New York: Avon Books.

Robert J. K. Jacob

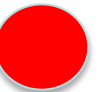
The most frequent references you will meet:

- 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 the library to locate a 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 ... |
| • tidsskrifttittel: | 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 tidsskriftartikkel: 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 biblioteket til å lokalisere evt papirversjon

Find via library home page

The screenshot displays a library website interface. At the top, there are navigation links for 'Informatics and Mathematics' and 'Find e-Journal' / 'Find e-Book'. A language dropdown menu is set to 'English'. The main search area shows the search term 'computer' and a list of results. The first result is 'Computer' with a link to 'View journal'. Below this, there are links for 'Computer-aided design' and 'Computer aided design'. The right sidebar contains a 'UBO' (University of Borås) logo and a 'Språk' (Language) dropdown. The main content area displays the source 'Computer [0018-9162]' and provides full text availability information: 'Full text available via IEEE Xplore Journals (IEL)' and 'Available from 1970 volume: 3 issue:5'. Other services include a link to 'Get help or report error in Feedback form'. Holdings information shows 'Find print copy in BIBSYS'. Document delivery options include 'Order loan/copy in BIBSYS' and 'Order loan/copy in BIBSYS-ORIA (test)'.

< Informatics and Mathematics

Informatics

Find e-Journal Find e-Book

English

UBO

Språk

Source: Computer [0018-9162]

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

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Title **Ca**

0-9 A B C

Title: computer

Search

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Total number of e

Switch to Detail View

Showing page 325

Journal title

[Computer](#) [View journal]

[Computer-aided design](#) [View journal]

[Computer aided design](#) [View journal]

Databases

Referen

• ACM

• IEEE

• Inspire

and pl

• MathS

Finn via bibliotekets fagside

< Informatikk og matematikk
Informatikk - fagressurser English

Finn e...

UBO Språk / Language: Norsk

Kilde: Computer [0018-9162]

Fulltekst
 [Fulltekst tilgjengelig fra](#) IEEE Xplore Journals (IEL)
Tilgang f.o.m. 1970 volum: 3 hefte:5

Kontakt
 [Hjelp og feilmelding i](#) Feedback form

Beholdning
 [Finn trykt eksemplar i](#) BIBSYS

Bestill
 [Bestill dokument i](#) BIBSYS
 [Bestill dokument i](#) BIBSYS-ORIA (test)

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Antall e-

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Viser side

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[Compute](#)

[Compute](#)

[Compute](#)

Find/Finn via IEEE Xplore

Selected databases 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 Technology (IET). The database contains more than 2,8 million documents. The subscription is limited to 10 simultaneous users. (BibTeX, 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, EndNote).

[Inspec](#)

A reference database from IET. Covers Physics, Electronics, Telecommunications, Computing, Control Technology and Information Technology. (EndNote).

[ISI Web of Knowledge \(Web of Science\)](#)

Web of Science gir tilgang til: Science citation index expanded, Social science citation index, Arts and humanities citation index, and Conference proceedings citation index. (BibTeX, EndNote).

[MathSciNet](#) (Many in full text)

MathSciNet is a comprehensive database covering the world's mathematical literature of the past 61 years. It provides Web

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

Computer



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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
			2010	2011	2012	2013	2014	2015		
	Vol: 16 Issue: 1		Vol: 16 Issue: 2			Vol: 16 Issue: 3		Vol: 16 Issue: 4		
	Vol: 16 Issue: 5		Vol: 16 Issue: 6			Vol: 16 Issue: 7		Vol: 16 Issue: 8		
	Vol: 16 Issue: 9		Vol: 16 Issue: 10			Vol: 16 Issue: 11		Vol: 16 Issue: 12		

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

shneiderman direct manipulation 1983

Basic Search Author Search Publication Search Advanced Search Other

Displaying 1 of 1 Result for **shneiderman direct manipulation 1983** ✕

Show All Results | ▾

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Refine results by ?

Search within results 🔍

☐ **Direct Manipulation: A Step Beyond Programming Languages** 🔒

Shneiderman, B.

Computer

Year: 1983, Volume: 16, Issue: 8

Pages: 57 - 69, DOI: 10.1109/MC.1983.1654471

Cited by: Papers (154) | Patents (1)

IEEE Journals & Magazines

▶ Abstract PDF (6391 Kb) ©

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



... 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 databases 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)

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[Inspec](#)

A reference database from IET. Covers Physics, Electronics, Telecommunications, Computing, Control Technology and Mechanical Engineering.



... og disse to?

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.

Tidsskriftartikler. Se etter tidsskriftene

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

[Inspec](#)

A reference database from IET. Covers Physics, Electronics, Telecommunications, Computing, Control Technology and Mechanical Engineering. (BibTeX, EndNote).



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.

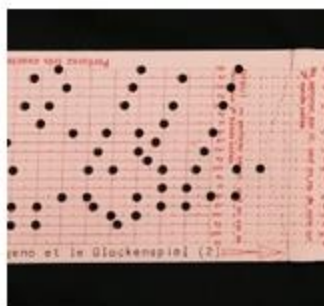
Examination of direct-manipulation interfaces reveals that they have a coroutine-like structure and, despite their surface appearance, a peculiar, highly moded dialogue. This paper introduces a specification technique for direct-manipulation interfaces based on these observations. In it, each locus of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

Informatics re

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English



What's this?

Title Category Locate CitationLinker

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Title: scientific american

☐ Starts with ☒ Contains

Go

Total number of e-Journals: 11

UBO

Språk / Language: Norsk

Source: Scientific American [0036-877

Full text



[Full text available via](#) Nature

Available from 1845 volume: 1 issue:1



[Full text available via](#) Making Of America Cornell Journal

Available from 1846 volume: 2 issue:1 until 1869 volume: 21 issue:26

Other services



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Actions

49X

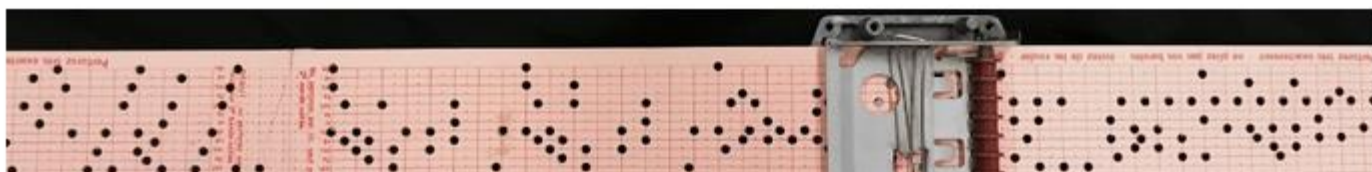
442

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733

082

090



Finn e-tidsskrift

Finn e-bok

Norsk

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Tittel

Fagområde

Utvidet søk

Finn artikkel

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å Andre

Søket

Tittel: scientific american

☐ begynner med ☒ inneholder

Søk

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Tilgang f.o.m. 1845 volum: 1 hefte:1

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Tilgang f.o.m. 1846 volum: 2 hefte:1 t.o.m. 1869 volum: 21 hefte:26

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1987 | Volume 257, Volume 256

Dec

[Issue](#)

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Aug

[Issue](#)

pp

Apr

[Issue](#)

pp

Interfa

James

doi:10.

[PDF \(92](#)

Netwo

Robert

doi:10.

[PDF \(47](#)

Interfaces for Advanced Computing

Why should sophisticated computers be difficult to use? The coming generation of supercomputers will have the power to make elaborate “artificial realities” that facilitate user-computer communication

by James D. Foley

A flight simulator exemplifies the ability of modern computer technology to mimic reality. Computers orchestrate the sound, force and motion that approximate the aerodynamic behavior of an airplane, plane, and specialized super-

tion of supercomputers may feature hands-on manipulation of computer-generated images along with tactile sensations and force feedback. Sensors will measure the position of a user's head and track the movements of his eyes, voice recognition

established, although they are constantly being refined. What remains to be addressed is the maximization of user efficiency.

Scientific computing in particular has been forced to focus on hardware performance, because its computa-

Order | New Search | Find databases

Books + articles at UiO | **Books in Norwegian research libraries**

in the title starts with user interface management systems? AND

Any contains AND

Any contains AND

Any contains

Material Type: All items

Language: Any language

Publication Date: Any year

Start Date: Year

End Date: Year

Find Databases

Tom bestilling

Article title **

Journal title **

Title (book) ** User interface management systems

Creator * Olsen, D.R.

ISBN/ISSN *	-	Year *	1992	Source	
Volume	-	Issue	-	Pages	-

Comment

Request photocopy Library might have restrictions photocopying and might charge for this service. Please contact your library for
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1992. Olsen, D. R. *User Interface Management Systems: Models and Algorithms*. San Francisco: Morgan Kaufmann.

A book. Order via BIBSYS.

Bestill

Nytt søk

Finn databaser

Finn e-tidsskrifter

Finn

Bøker + artikler ved UiO

Bøker i norske fagbibliotek

Materialtype

Alle typer

Tom bestilling

Artikkeltittel **

Tidsskrifttittel **

Tittel (bok) **

Forfatter *

ISBN/ISSN *

Årstall *

1992

Kilde

Volum

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Kommentar

Bestill kopi

Bibliotek kan ha begrensning på kopibestillinger og de kan koste penger. Kontakt ditt bibliotek for reglement.
Fyll ut så mye informasjon som mulig!

* - Viktige felt

** - Enten tittel eller artikkeltittel må være fylt ut. Hvis du har fylt ut artikkeltittel må du også legge inn tidsskrifttittel.

Frøde Vatvedt Fjeld

1998

Ikke tilgjengelig ved UIO, Universitetsbiblioteket, men fra andre institusjoner

Plasseringer

Detaljer

Bestill dokument

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Masteroppgaver

Masteroppgaver

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

En bok. Bestille lån via BIBSYS

How do you get this?

The screenshot displays a library search interface. At the top, there are tabs for "Books + articles at UiO" and "Books in Norwegian research libraries". Below these, a search query is entered: "in the title" (dropdown), "starts with" (dropdown), "user centered system design" (text input), and "AND" (dropdown). Below this, there are three more rows, each with "Any" (dropdown), "contains" (dropdown), and an empty text input, followed by "AND" (dropdown). To the right of the search query, there are filters for "Material", "Language", "Publication", "Start", and "End". Below the search query, there is a "Search" button. To the left of the search results, there is a sidebar with a "What" section, a "Search" section, and a "Suggested" section. The search results section shows a book titled "User centered system design : new perspectives on human-computer interaction" by "1986". It is marked as "Available at UiO, Universitetsbiblioteket". Below the title, there are tabs for "Locations", "Details", "Virtual Browse", "Request", and "Order photocopy". The "Request" tab is selected. Below the tabs, there is a "Comment (optional):" label and a text input field. To the right of the text input field is an "Order" button.

Order

Books + articles at UiO Books in Norwegian research libraries

in the title starts with user centered system design AND

Any contains AND

Any contains AND

Any contains

Material
Language
Publication
Start
End

Search

What

Search

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Suggested

Search for

☆ User centered system design : new perspectives on human-computer interaction
1986
● Available at UiO, Universitetsbiblioteket

Locations Details Virtual Browse Request Order photocopy

Comment (optional):

Order

Hvordan får du tak i dette?

1986. Hutchins, E. L. 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

The screenshot shows a library search interface with a search bar at the top. The search criteria are: Title starts with 'user centered system design', and it contains 'user centered system design'. The search results show one result: 'User centered system design : new perspectives on human-computer interaction' by Hutchins, E. L., Hollan, J. D., and Norman, D. A. (1986). The result is marked as available from the library. The interface includes a sidebar with navigation links like 'Søk', 'rss', 'Legg', 'Forslag', and 'Søk etter'. The main content area shows the book details, including the title, author, year, and a 'Bestill dokument' button.

Bøker + artikler ved UiO **Bøker i norske fagbibliotek**

Tittel starter med user centered system design OG
Alle felt inneholder OG
Alle felt inneholder OG
Alle felt inneholder

Materialtype Alle
Språk Inge
Utgivelsesdato Alle
Startdato: År

1 Treff i Library Catalogue Sorter etter: Tittel

 ☆ **User centered system design : new perspectives on human-computer interaction**
1986
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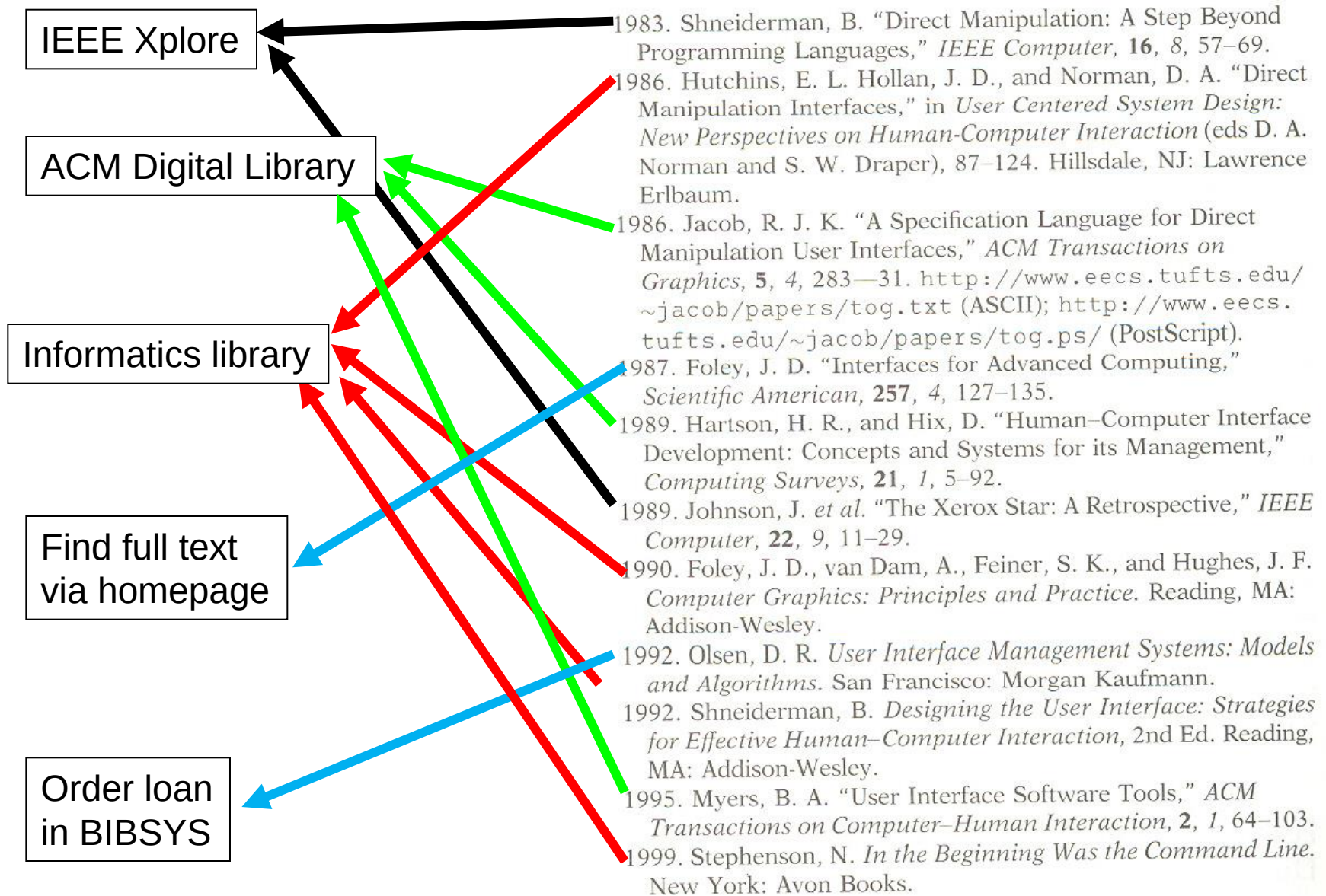
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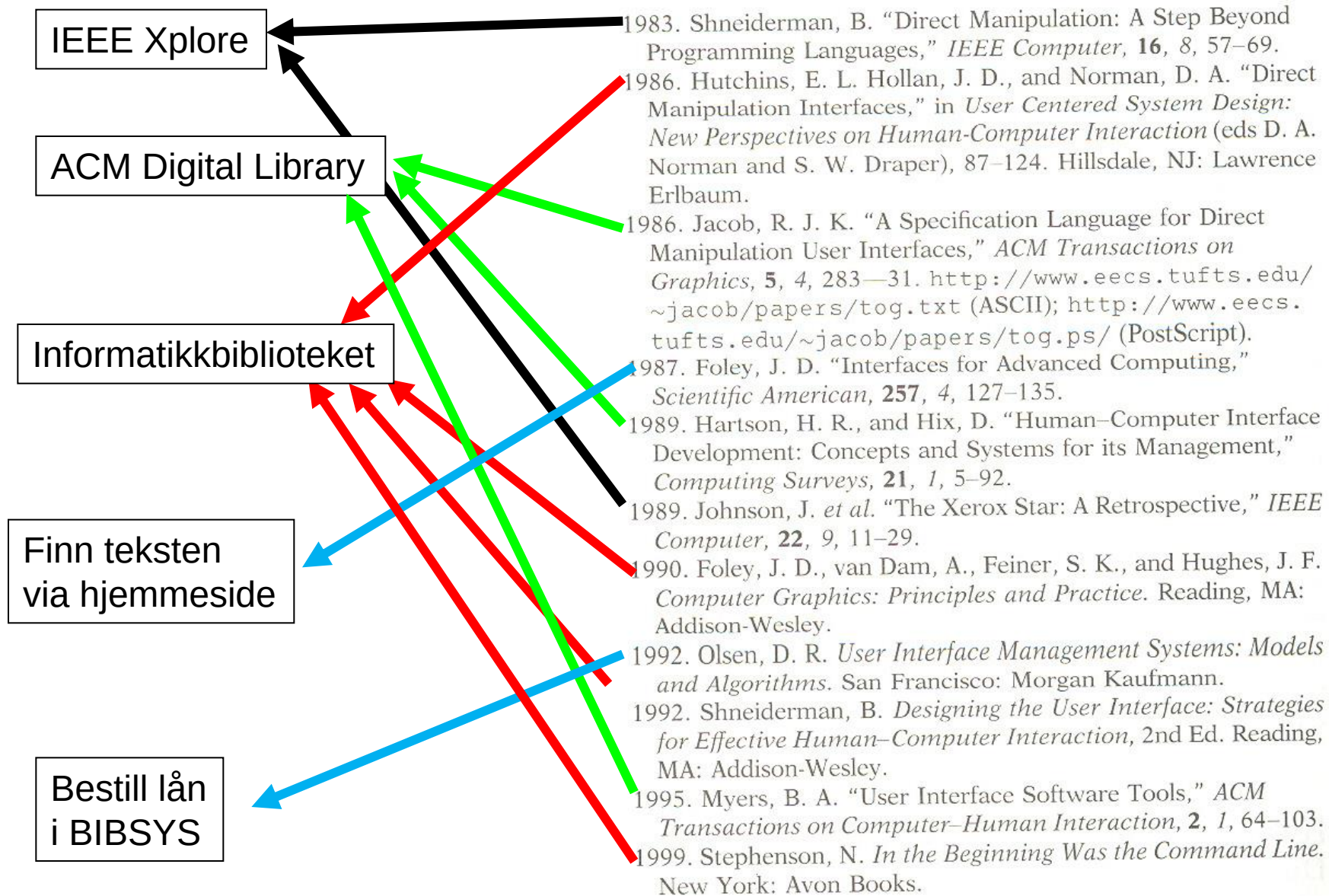
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