

Exploiting the classification scheme and a controlled vocabulary in a library catalogue

A subject search front end to the
BIBSYS catalogue

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The components

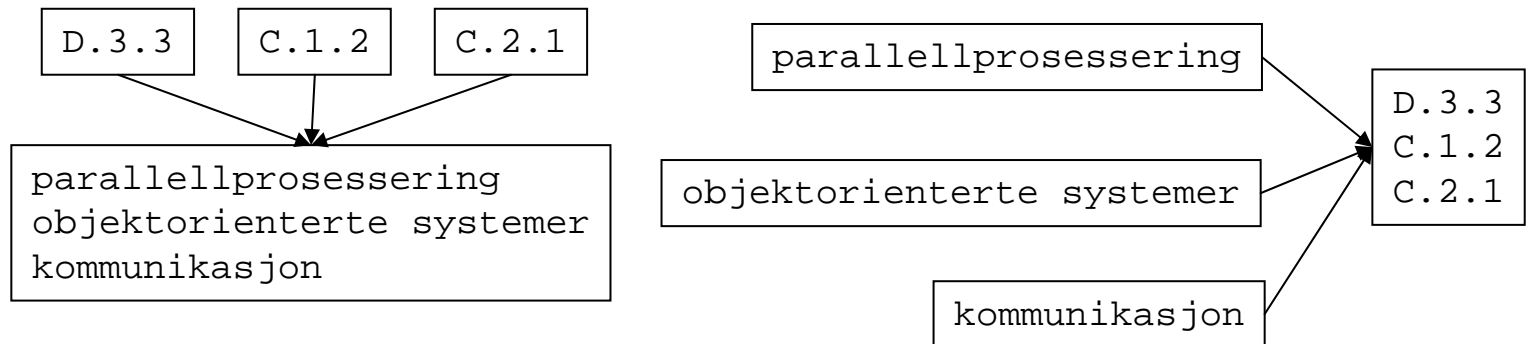
- The ACM classification system (CRCS)
 - Classification codes (D.1.5 Object oriented programming)
 - The codes have descriptors
 - The system partly translated into Norwegian
- A controlled vocabulary
 - about 5 000 computer science terms (in Norwegian)
 - see and see also references
- The actual use of codes and vocabulary imported from the catalogue

The use

■ The bibliographic record

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*062 $a D.3.3 $b C.1.2 $b C.2.1
*687 $a parallellprosessering
*687 $a objektorienterte systemer
*687 $a kommunikasjon
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■ The search interface



Searching and selecting subjects

Subject search in the Informatics Library

File Help

Type your search string Search subject descriptions

Combined hits **CRCS hierarchy** CRCS Term Help ACM

Selected **datastøttet undervisning AND K.3.1 AND web-tjenester** Search the catalogue

Subjects	The selected subject is used in combination with the following codes	Existing subject combinations
datastøttet konstruksjon (23)	K.3.1 - Computer uses in education (93)	datastøttet læring (20)
datastøttet kvalitetskontroll (3)	K.3.0 - Computers and education - General (17)	fjernundervisning (12)
datastøttet ledelse (2)	K.3.2 - Computer and information science education (10)	systemarbeid (5)
datastøttet læring (36)	H.5.1 - Multimedia information systems (9)	multimedia (5)
see also datastøttet undervisning (111)	I.2.6 - Learning (9)	informatikkundervisning (4)
see also fjernundervisning (29)	H.5.2 - User interfaces (7)	web-tjenester (3)
datastøttet læringisning (1)	I.2.0 - Artificial intelligence - General (6)	brukergrensesnitt (3)
datastøttet miljøvern (1)	K.8.0 - Personal computing - General (3)	hypermedia (3)
datastøttet modellering (1)	H.4.3 - Communications applications (3)	datastøttet samarbeid (2)
datastøttet musikk (1)	J.4.0 - Social and behavioral sciences - general (2)	hovedoppgaver (2)
datastøttet musikkanalyse (1)	J.4 - Social and behavioral sciences (2)	hypertekst (2)
datastøttet opplæring (1)	K.4.0 - Computers and society - General (2)	maskinlæring (2)
datastøttet oversetting (1)	I.2.1 - Applications and expert systems (2)	læringsteknologi (2)
datastøttet produksjon (5)	J.2 - Physical sciences and engineering (2)	informatikk (2)
datastøttet programmering (4)	I.6.0 - Simulation and modeling - General (2)	world wide web (2)
datastøttet programutvikling >	I.3.7 - Three-dimensional graphics and realism (2)	elektronisk handel (1)
use datastøttet programmering (4)	H.5.3 - Group and organization interfaces (2)	nettverk (1)
datastøttet saksbehandling (1)	K.4.3 - Organizational impacts (2)	skole (1)
	J.1.0 - Administrative data processing - general (1)	undervisning (1)
	J.6 - Computer-aided engineering (1)	utdanning (1)
	H.3.5 - Online information services (1)	datastøttet læringisning (1)
	D.2.0 - Software engineering - General (1)	ingeniørfag (1)
	K.6.1 - Project and people management (1)	dataspill (1)
	J.2.0 - Physical sciences and engineering - general (1)	unik (1)
	H.5.0 - Information interfaces and presentation - General (1)	fjernundervisningvisning (1)
	K.4.4 - Electronic commerce (1)	ekspertsystemer (1)
	D.1.3 - Concurrent programming (1)	vevbasert undervisning (1)
	K.6.5 - Security and protection (1)	elektronisk post (1)
	I.6.3 - Applications (1)	datastøttet forskning (1)
	I.2.11 - Distributed artificial intelligence (1)	studier (1)
	I.3.0 - Computer graphics - General (1)	cmi (1)

Classification

- D.2.2 - Design tools and techniques (282)
- H.4.3 - Communications applications (207)
- H.5.3 - Group and organization interfaces (108)
- I.2.7 - Natural language processing (184)
- J.6 - Computer-aided engineering (69)
- J.6.0 - Computer-aided engineering - general (36)
- K.3.1 - Computer uses in education (151)
- K.4.3 - Organizational impacts (68)

Search the catalogue or select in column 3 to refine

Inspecting the CRCS code and hierarchy

Subject search in the Informatics Library

File Help

Type your search string

Combined hits **CRCS hierarchy** **CRCS** **Term** **Help** **ACM**

K.3.1	Computer uses in education 151
K.3	Computers and education
K	Computing milieux
Descriptors:	
Computer-assisted instruction	
Computer-managed instruction	
Distance education	
Collaborative learning	

K.3.1	EDB-bruk i undervisning
K.3	null
K	null
Deskriptorer:	
Datastøttet undervisning	
Datastyrt undervisning	
Fjernundervisning	

Search the catalogue or select in column 3 to refine

Browsing the CRCS hierarchy

The screenshot shows a web application window titled "Subject search in the Informatics Library". The interface includes a search bar with the text "datastøttet" and a "Search subject descriptions" button. Below the search bar are tabs for "Combined hits", "CRCS hierarchy", "CRCS", "Term", "Help", and "ACM". The "CRCS hierarchy" tab is active, displaying a tree view of subjects. The "D.1.3 - Concurrent programming (333)" node is selected. To the right, a list titled "Subjects used with this code" shows the following subjects and their counts:

- parallellprogrammering (119)
- parallellprosessering (57)
- distribuerte systemer (49)
- distribuert programmering (34)
- parallellarkitektur (20)
- parallellalgoritmer (19)
- parallele systemer (17)
- parallelitet (14)
- java (12)
- algoritmer (10)
- ada (9)
- podc (9)
- samtidighet (8)
- objektorientert programmering (7)
- nettverk (6)
- spaa (6)
- kommunikasjon (5)

At the bottom of the window, there is a text prompt: "Search the catalogue or select in column 3 to refine".



Plans

- Searching the ACM digital library making use of the CRCS codes and descriptors
- Downsizing the controlled vocabulary to 3000 terms
- A fully dual language interface
 - a Norwegian version of the CRCS
 - an English version of the controlled vocabulary
 - searching both languages; presentation according to chosen language