

COMPUAB

Subject Coverage	Theoretical and applied computer science including:		
	<ul style="list-style-type: none"> • Artificial Intelligence • Computer Applications • Computer Programming • Computer Systems Organization • Control Theory • Hardware 	<ul style="list-style-type: none"> • Information Systems • Mathematics of Computing • Operations Research • Probability and Statistics • Software engineering 	
File Type	Bibliographic		
Features	CAS Registry Numbers® <input type="checkbox"/> Keep & Share <input checked="" type="checkbox"/> Learning Database <input type="checkbox"/>	Page Images <input type="checkbox"/> SLART <input checked="" type="checkbox"/> Structures <input type="checkbox"/>	STN AnaVist <input type="checkbox"/> STN Easy <input type="checkbox"/> STN Viewer <input type="checkbox"/>
Record Content	<ul style="list-style-type: none"> • COMPUAB (Computer and Information Systems Abstracts) is a bibliographic database from Cambridge Scientific Abstracts that contains information on theoretical research and practical applications of applied computer science. Control and information theories are covered, as well as mathematics, operations research, and probability and statistics. Both scientific research and government policies on computer science information are contained in the database. COMPUAB corresponds to the printed publication <i>Computer and Information Systems Abstracts</i>. 		
File Size	More than 1,314,470 records (11/2010)		
Coverage	1981 to the present		
Updates	<ul style="list-style-type: none"> • Updated monthly • Automatic current-awareness searches (SDIs) are run monthly 		
Language	English		
Database Producer	ProQuest (Cambridge Scientific Abstracts) 7200 Wisconsin Avenue Bethesda, MD 20814 Phone: (301) 961-6700 Phone: (800) 843-7751 Fax: (301) 961-6720 E-mail: support@csa.com		

Sources Books, conference proceedings, government reports, and journal articles

User Aids

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

Clusters

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Search and Display Field Codes

Fields that allow left truncation (/BI, /TI, /AB) in this file are indicated by an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from the title (TI), uncontrolled term (UT), and abstract (AB) fields)	None (or /BI)	S MODULE# S MOBILE RADIO/BI S ROBOT (S) ARM# S ?MAGNET?	AB, TI, UT
Abstract *	/AB	S COMPOSITE?/AB S ?CHIP?/AB	AB
Accession Number	/AN	S 2003:405/AN	AN
Author	/AU	S HOYLE R?/AU S HOYLE,R?/AU S HOYLE, R?/AU	AU
Classification Code (code and text) (1)	/CC	S AVIATION?/CC S CA17?/CC S ENVIRONMENTAL SAFETY/CC S "TELEPHONE SYSTEMS AND EQUIPMENT"/CC	CC
Corporate Source (1)	/CS	S ROTHCHILD?/CS	CS
Document Number	/DN	S "111704 (AN)"/DN	DN
Document Type (code and text)	/DT	S CONFERENCE/DT S C/DT	DT
E-mail Address	/EML	S jamesulhansen@byu.edu/EML	CS
Entry Date (2)	/ED (or /UP)	S L1 AND ED>=19991200	ED
Field Availability	/FA	S UT/FA	Not displayed
File Segment (code and text)	/FS	S CE/FS S COMPUTER & INFORMATION SYSTEMS?/FS	FS
International Standard Document Number (contains ISSN and ISBN)	/ISN	S 0001-0782/ISN S 250404885/ISN	ISN, SO
Journal Title	/JT	S LASER FOCUS/JT	JT, SO
Language (code and text)	/LA	S FRENCH/LA S FR/LA	LA
Meeting Date (4)	/MD	S 20031001-20031010/MD	SO, MD
Meeting Location (4)	/ML	S ZVENIGOROD/ML	SO, MD
Meeting Title (4)	/MT	S NANOELECTRONICS/MT	SO, MT
Meeting Year (4)	/MY	S 2005/MY	SO
Note (3)	/NTE		NTE
Number of Report	/NR	S INT-377/NR	NR, SO
Publication Date (2)	/PD	S 20000131/PD	SO
Publication Year (2)	/PY	S PY>=1999	PY, SO
Publisher (4)	/PB	S SPRINGER/PB	PB
Reference Count (2)	/REC	S 10/REC	REC
Source (contains journal title, collation information (volume, issue, and page numbers), publication date, publisher and location, contract or report number, meeting information, ISSN, and ISBN)	/SO	S (IEEE AND GEOSCI? AND VOL 4)/SO S 0001-0782/SO S DODSWDK90014/SO	SO
Summary Language (code and text)	/SL	S ENGLISH/SL S EN/SL	SL
Title *	/TI	S BIT DETECTOR/TI S ?SPECTR?/TI	TI

(1) Search with implied (S) proximity is available in this field.

(2) Numeric search field that may be searched using numeric operators or ranges.

(3) Currently empty field.

(4) Field added May 2005, new data only.

COMPUAB**DISPLAY and PRINT Formats**

Any combination of formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g., D L1 1-5 TI AU. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all fields except PY. Highlighting must be on during SEARCH in order to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB AN AU CC CS DN DT ED EML FS ISN (1) JT (1) JTA (1) LA MD ML MT NR (1) NTE PB (1) PY (1) REC SL SO TI UP UT	Abstract Accession Number Author Classification Code Corporate Source Document Number Document Type Entry Date E-mail Address File Segment International Standard (Document) Number Journal Title Journal Title Abbreviated Language Meeting Date Meeting Location Meeting Title Number of Report Note Publisher Publication Year Reference Count Summary Language Source Title Update Date Uncontrolled Term	D L4 1-4 AB D L1 3 AN D AU 1,3-5 D CC 5-10 D 1-3,7,8 CS D DN D DT 1-5 D ED D EML D L1 FS 3 D ISN D JT 2 D JTA 2 D L8 LA 1-3 D MD D ML D MT D NR L1 4 D NTE D PB D PY D REC D L3 SL D SO 2 L5 D L3 4 TI D UP D UT
ABS ALL BIB CBIB DALL FREE (2) IALL IBIB IND SAM SCAN (2,3) TRIAL (2)	AB AN, DN, TI, AU, CS, SO, DT, FS, LA, SL, NTE, REC, ED, AB, CC, UT AN, DN, TI, AU, CS, SO, DT, FS, LA, SL, NTE, REC, ED (BIB is the default) AN, compressed bibliographic information ALL, delimited for post-processing TI, CC, UT ALL, indented with text labels BIB, indented with text labels CC, UT TI, CC, UT TI, CC, UT (random display without answer number) TI, CC, UT	D 2 6 ABS D ALL L4 D L2 BIB D 1-3 CBIB D 1-15 L1 D ALL D FREE D 2 L1 IALL D IBIB D 1-10 CBIB IND D 1,5,10 SAM D SCAN D TRI
HIT KWIC OCC (2)	Fields containing hit terms Hit terms with 20 words on either side (Key-Word-In-Context) Fields that contain hit-terms and number of times they occur	D 1 5 10 HIT D KWIC NOH D OCC 3,4

(1) Custom display only.

(2) No online display fee for this format.

(3) SCAN must be entered on the command line, i.e., DISPLAY SCAN or D SCAN

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y (2)	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Citation	CIT	Y	Y
Classification Code	CC	Y	Y
Corporate Source	CS	Y	Y
Document Number	DN	Y	N
Document Type	DT	Y	Y
E-mail Address	EML	Y	Y
Entry Date	ED	Y	Y
File Segment	FS	Y	Y
International Standard Book Number	ISBN	N	Y
International Standard (Document) Number	ISN	Y (3)	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviation	JTA	Y	Y
Language	LA	Y	Y
Meeting Date	MD	Y	Y
Meeting Location	ML	Y	Y
Meeting Title	MT	Y	Y
Note	NTE	Y	Y
Number of Report	NR	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y (4)	Y
Publisher	PB	Y	Y
Reference Count	REC	Y	Y
Source	SO	Y (5)	N
Summary Language	SL	Y	Y
Title	TI	Y (default)	Y
Uncontrolled Term	UT	Y (2)	N
Update Date	UP	Y	Y

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- (2) Appends /BI to the terms created by SELECT.
- (3) Selects or analyzes ISSN and ISBN with /ISN appended to the terms created by SELECT.
- (4) SELECT HIT or ANALYZE HIT are not valid with this field.
- (5) Selects or analyzes the ISSN and ISBN with /SO appended to the terms created by SELECT.

COMPUAB**Sample Records****DISPLAY IALL**

ACCESSION NUMBER: 2000:11863 COMPUAB
 DOCUMENT NUMBER: 463336 (CI)
 TITLE: Modelling and representation issues in automated feature extraction from aerial and satellite images
 AUTHOR: Sowmya, A; Trinder, J
 CORPORATE SOURCE: Univ of New South Wales, Sydney, Aust.
 SOURCE: ISPRS Journal of Photogrammetry and Remote Sensing, Vol. 55 No. 1, pp. 34-47, 20000000. Publisher: Elsevier Science BV, P.O. Box 211, Amsterdam, 1000 AE, Netherlands, [mailto:w.tukker@elsevier.nl].
 ISSN: 0924-2716.
 DOCUMENT TYPE: Journal
 FILE SEGMENT: Computer & Information Systems
 LANGUAGE: English
 ENTRY DATE: Entered STN: 19 Dec 2004
 Last Updated on STN: 19 Dec 2004
 ABSTRACT: New digital systems for the processing of photogrammetric and remote sensing images have led to new approaches to information extraction for mapping and Geographic Information System (GIS) applications, with the expectation that data can become more readily available at a lower cost and with greater currency. Demands for mapping and GIS data are increasing as well for environmental assessment and monitoring. Hence, researchers from the fields of photogrammetry and remote sensing, as well as computer vision and artificial intelligence, are bringing together their particular skills for automating these tasks of information extraction. The paper will review some of the approaches used in knowledge representation and modelling for machine vision, and give examples of their applications in research for image understanding of aerial and satellite imagery.
 CLASSIFICATION: C 723.2 Data Processing; C 716.2 Radar Systems and Equipment; C 742.3 Photographic Materials and Chemicals; C 655.2 Satellites; C 732.2 Control Instrumentation; C 903.3 Information Retrieval and Use (CI)
 UNCONTROLLED TERM: Radar Imaging; Satellite Observatories; Photogrammetry; Feature Extraction; Remote Sensing; Geographic Information Systems; Computer Vision; Artificial Intelligence; Knowledge Representation

DISPLAY BIB

AN 2000:4095 COMPUAB
 DN 463344 (CI)
 Application of computational thermodynamics to phase transformation nucleation and coarsening
 AU Agren, J; Clavaguera Mora, M T; Golcheski, J; Inden, G; Kumar, H; Sigli, C
 CS Royal Inst of Technology, Stockholm, Sweden.
 SO Calphad, Vol. 24, No. 1, pp. 41-54, 20000000. Publisher: Elsevier Science Ltd, Oxford Fulfillment Centre, P.O. Box 800, Kidlington, Oxford, OX5 1DX, UK.
 ISSN: 0364-5916.
 DT Journal
 FS Computer & Information Systems
 LA English
 ED Entered STN: 19 Dec 2004
 Last Updated on STN: 19 Dec 2004

DISPLAY SAM

TI The wavelet transform and its applications to phonocardiogram signal analysis.
CC C CA1.3.2 HEART AND CIRCULATORY SYSTEM, BLOOD; E 8050 CARDIOVASCULAR SYSTEM; BLOOD (CI)
UT Diagnostics; Signal Processing; Decomposition; Frequency; Time Measurement; Waveforms; Medicine

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