

## COMPUSCIENCE

---

- Subject Coverage**
- Algorithms
  - Artificial intelligence
  - Computers and education
  - Computer graphics, image processing, pattern recognition
  - Computer systems organization
  - Information systems
  - Software
  - Symbolic computation, algebraic computation, computer algebra
  - Theoretical computer science
- 

**File Type** Bibliographic

---

**Features**

Thesaurus	None				
Alerts (SDIs)	Not available				
CAS Registry Number <sup>®</sup> Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN <sup>®</sup> AnaVist™	<input type="checkbox"/>
<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input checked="" type="checkbox"/>	<a href="#">STN Easy<sup>®</sup></a>	<input checked="" type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>		

---

**Record Content** Bibliographic information, indexing and mostly an abstract.

---

**File Size** 656,378 citations

---

**Coverage** 1972-2002

---

**Updates** Closed file

---

**Language** English

---

**Database Producer / Supplier**  
 FIZ Karlsruhe  
 P.O. Box 2465  
 76012 Karlsruhe  
 Germany  
 Phone: +49 7247 808-555  
 Fax: +49 7247 808-259  
 Email: helpdesk@fiz-karlsruhe.de  
 Copyright Holder

---

2  
**COMPUSCIENCE**

---

- Sources**
- Journals
  - Books
  - Reports
  - Conference contributions
  - Dissertations
  - Other non-conventional literature
- 

- User Aids**
- Classification Scheme of the Computing Reviews \*
  - Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
- \* Available at Association for Computing Machinery, New York, NY, U.S.A.
- 

- Clusters**
- ALLBIB
  - AUTHORS
  - COMPUTER
  - CORPSOURCE
  - ELECTRICAL
- [STN Database Clusters](#) Information (PDF)
- 

**Pricing** Enter HELP COST at an arrow prompt.

---

## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*).

### General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the title (TI), abstract (AB), classification code (CC), and supplementary term (ST) fields)	None or /BI	S DENOTATIONAL SEMANTIC# S ENTWICKLUNGS(S)SICHERHEIT?	TI, AB, CC, ST
Accession Number	/AN	S '2002(7):MA59015'/AN	AN
Author	/AU	S KING, P/AU	AU
Classification Code (code, main code and text)	/CC	S D/CC S D.3.2/CC S *H.2.1/CC	CC
Corporate Source (incl. affiliation)	/CS	S (LOGICAL(W)DESIGN)/CC S (UNIVERSITY(S)TUCSON)/CS S MASSACHUSETTS INST?/CS	CS
Country of Publication (code and text)	/CY	S UNITED KINGDOM/CY S DE/CY	CY
Document Number	/DN	S 199123527/DN	DN
Document Type (code and text)	/DT	S C/DT S BOOK/DT	DT
Entry Date <b>(1)</b>	/ED (or /UP)	S ED>=920200	not displayed
Information Provider	/IP	S FIZKA/IP	IP
Journal Title	/JT	S THE COMPUTER JOURNAL/JT	JT, SO
Language (code and text)	/LA	S SPANISH/LA S EN/LA	LA
Meeting Date <b>(1)</b>	/MD	S 900800-900930/MD	SO
Meeting Year <b>(1)</b>	/MY	S 1990/MY AND AMSTERDAM/SO	SO
Number of Report (number and prefix)	/NR	S TR--04-77/NR S TR0477/NR S TR/NR	NR
Other Source	/OS	S EL/OS	OS
Publication Date <b>(1)</b>	/PD	S 910600-910630/PD	PD, SO
Publication Year <b>(1)</b>	/PY	S 1990-1991/PY	PY, SO
Source (contains CODEN, journal title and other higher level titles, ISBN, ISSN, publisher, meeting information, number of report, programming language)	/SO	S COMPUTER JOURNAL/SO S 0010-4620/SO S (UNIFICATION(S)EXTENSION)/SO	SO
Supplementary Term	/ST	S DEFAULT DATABASE#/ST	ST
Title	/TI	S INCOMPLETE INFORMATION/TI S (GUIDE(S)ADA)/TI	TI
Treatment Code (code and text)	/TC	S THEORETICAL/TC	TC

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

**COMPUSCIENCE****DISPLAY and PRINT Formats**

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

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

Format	Content	Examples
AB AN AU CC CS CY DN DT IP JT (1) LA NR OS (1) PD (1) PY (1) SO ST TC TI	Abstract Accession Number Author Classification Code Corporate Source (format includes AU) Country of Publication Document Number Document Type Information Provider Journal Title Language Number of Report Other Source Publication Date Publication Year Source (format includes NR) Supplementary Term Treatment Code Title	D TI AB D 1-5 AN D AU TI D CC D CS D CY D DN D DT D IP D JT D LA TI D NR D OS D PD D PY D SO D ST D TC D TI 1-10
ALL BIB  IND TRIAL	BIB, AB, CC, ST AN, TI, AU, CS, NR, SO, DT, TC, CY, LA, IP, DN (BIB is default) AN, CC, ST TI, CC, ST	D 1-3 ALL D BIB  D IND D TRIAL
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC D OCC

(1) Custom display only.

**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	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Classification Code	CC	Y	Y
Corporate Source	CS	Y	Y
Country of Publication	CY	Y	Y

**SELECT, ANALYZE, and SORT Fields (cont'd)**

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Document Number	DN	Y	N
Document Type	DT	Y	Y
Index Term	IT	Y	N
Information Provider	IP	Y	Y
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Number of Report	NR	Y	Y
Other Source	OS	Y	Y
Publication Date	PD	Y (2)	Y
Publication Year	PY	Y (2)	Y
Source	SO	Y (3)	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	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) Selects or analyzes publication year with /PD appended to the terms created by SELECT.  
(3) Selects or analyzes ISSN and ISBN with /SO appended to the terms created by SELECT.

**Sample Record****DISPLAY ALL OF JOURNAL**

AN 2002(7):MA59015 COMPUSCIENCE  
TI Non-parametric Wiener filter for reducing noise on reproducible pure signals.  
AU Caprari, Robert S.  
SO J. Phys. A, Math. Gen. (1999) v. 32(17) p. 3075-3094.  
1999.  
DT Journal  
TC Theoretical  
CY Germany, Federal Republic of  
LA English  
IP FIZKA  
DN 986.81524  
AB Summary: This paper communicates a novel method of Wiener filtering signals from scientific instruments to reduce their noise content. The main prerequisite for the applicability of this technique is that the pure (i.e. noiseless) signal is reproducible, a condition that is satisfied by a wide range of experimental measurements. The benefits of this Wiener filter design approach are its simplicity, generality and practicality. In particular, signal-dependent or multiplicative noise are accommodated without complication. The non-parametric filter does not require models of pure signal or noise statistics, and is exactly optimal for the observed (i.e. noisy) signal ensemble. Implementation of this Wiener filter only requires measurement of observed signal correlation functions. After deriving the classical stationary signal Wiener filter, the analysis is extended to derive the reproducible stationary pure signal Wiener filter. A distinction is made between non-adaptive Wiener filters derived from correlations computed as ensemble averages, and adaptive Wiener filters derived from correlations computed as time averages. The analysis is extended again to encapsulate non-stationary signal ensembles and further extended to synthesize Wiener filters based on statistically good observed

**COMPUSCIENCE**

signal correlation estimates for arbitrarily many pure signal reproductions.

CC \*J.2 Physical sciences and engineering

ST stationary signal Wiener filter; stationary pure signal Wiener filter.

---

**In North America**

CAS  
STN North America  
P.O. Box 3012  
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Center:  
Phone: 800-753-4227 (North America)  
614-447-3700 (worldwide)  
Fax: 614-447-3751  
Email: help@cas.org  
Internet: www.cas.org

**In Europe**

FIZ Karlsruhe  
STN Europe  
P.O. Box 2465  
76012 Karlsruhe  
Germany  
Phone: +49-7247-808-555  
Fax: +49-7247-808-259  
Email: helpdesk@fiz-karlsruhe.de  
Internet: www.stn-international.com

**In Japan**

JAICI (Japan Association for  
International Chemical Information)  
STN Japan  
Nakai Building  
6-25-4 Honkomagome, Bunkyo-ku  
Tokyo 113-0021, Japan  
Phone: +81-3-5978-3601 (Technical Service)  
+81-3-5978-3621 (Customer Service)  
Fax: +81-3-5978-3600  
Email: support@jaici.or.jp (Technical Service)  
customer@jaici.or.jp (Customer Service)  
Internet: www.jaici.or.jp