

# Computer and Information Systems Abstracts

## FILE DESCRIPTION

**Computer and Information Systems Abstracts** provides coverage of the world's technical literature on storing, processing, and accessing information. The database provides fast, organized access to the latest theoretical research and practical applications from around the world.

## SUBJECT COVERAGE

Major areas of coverage include:

- Artificial Intelligence
- Computer Applications
- Computer Programming
- Computer Systems Organization
- Computing Milieux
- Hardware
- Information Systems
- Mathematics of Computing
- Software Engineering

## SOURCES

Computer and Information Systems Abstracts includes journal articles, conference papers, technical reports, books, monographs, standards, news briefs, and other document types as appropriate, from more than 3,000 serial and non-serial sources.

## TIPS

### USE FILE 56

to search for information relating to computing and information systems worldwide.

### USE /TI AND /DE

for precise subject searching:

S SOFTWARE(W)ENGINEERING/TI,DE

### USE SUBJECT HEADINGS or

### SUBJECT HEADING CODES

to narrow a search to a topic.

S SH=SCATTERING PHENOMENA?

S SC=B TP3.6

### USE RANK

to find experts working in an area of interest.

S GRAVITATIONAL FIELD?

RANK AU

## DIALOG FILE DATA

Inclusive Dates: 1968 to the present

Update Frequency: Monthly

File Size: More than 396,000 records as of July 2005

## CONTACT

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## SAMPLE RECORD

DIALOG(R)File 56:Comp & Info Sys.  
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**AA=** 0000406576 IP ACCESSION NO: 200504-81-05984  
**/TI** External validation of the GRACE GGM01C gravity field using GPS and DORIS positioning results

**AU=** Willis, Pascal; Heflin, Michael B  
**CS=** Institut Geographique National, Direction Technique, Saint- Mande, France  
 Jet Propulsion Laboratory, Pasadena, California, USA

**JN=,SO=,PD=** Geophysical Research Letters, v 31, n 13, July 2004  
**PD=** PUBLICATION DATE: 2004

**PU=** PUBLISHER: American Geophysical Union, 2000 Florida Ave, NW, Washington, DC  
 , 20009-1277

**CP=** COUNTRY OF PUBLICATION: USA  
 PUBLISHER URL: <http://www.agu.org>

**DT=** DOCUMENT TYPE: Journal Article  
**RT=** RECORD TYPE: Abstract  
**LA=** LANGUAGE: English  
**SN=** ISSN: 0094-8276  
 DOI: 10.1029/2004GL020038

**FS=** FILE SEGMENT: Computer & Information Systems Abstracts  
**ABSTRACT:**

**/AB** We have used the new gravity field model GGM01C derived from GRACE data to reanalyze DORIS data from 1993.0 to 2003.2 using the Gipsy /Oasis software and a free-network approach. We have estimated the position and velocity of each DORIS station in ITRF2000. In order to test the accuracy of these results, we have compared them to the positions and velocities of 43 collocated GPS stations using local ties and covariance information. DORIS results computed using the GGM01C gravity field instead of the EGM96 gravity field show a significantly improved external agreement with GPS. Position agreement of 12-26 mm was reduced to 10-13 mm and velocity agreement of 3.3-3.7 mm/yr was reduced to 2.4-3.3 mm/yr. This can be interpreted as an external test of the accuracy of the new GGM01C gravity field.

**/DE** DESCRIPTORS: Gravitational fields; Geographic information systems; Satellite navigation systems; Global positioning system; Accuracy; Grace (experiment); Computer programs; Geophysics; Computation

**SC=,SH,SH=** SUBJ CATG: 81, Engineering and Sciences

SEARCH OPTIONS

BASIC INDEX

| SEARCH SUFFIX | DISPLAY CODE | FIELD NAME                    | INDEXING      | SELECT EXAMPLES                 |
|---------------|--------------|-------------------------------|---------------|---------------------------------|
| —             | —            | All Basic Index Fields        | Word          | S EXTERNAL(W)VALIDATION         |
| /AB           | AB           | Abstract                      | Word          | S NEW(W)GRAVITY(W)FIELD/AB      |
| /DE           | DE           | Descriptor <sup>1</sup>       | Word & Phrase | S GRAVITATIONAL(W)FIELDS?/DE    |
| /ID           | ID           | Identifier                    | Word & Phrase | S GLOBAL POSITIONING SYSTEM?/DE |
| /SH           | SH           | Subject Category <sup>2</sup> | Word          | S EXTRUSION/ID                  |
| /TI           | TI           | Title                         | Word          | S HEAT TRANSFER/ID              |
|               |              |                               |               | S SATELLITE(W)NAVIGATION?/SH    |
|               |              |                               |               | S GRAVITY(W)FIELD?/TI           |

<sup>1</sup> Also /DF.

<sup>2</sup> Searchable in the Basic Index and in the Additional Indexes.

ADDITIONAL INDEXES

| SEARCH PREFIX | DISPLAY CODE | FIELD NAME                                  | INDEXING      | SELECT EXAMPLES                    |
|---------------|--------------|---|---------------|------------------------------------|
| AA=           | AA           | CSA Accession Number                        | Phrase        | S AA=200504-81-15984               |
| AU=           | AU           | Author                                      | Phrase        | S AU=WILLIS, P?                    |
| —             | AZ           | DIALOG Accession Number                     |               |                                    |
| BN=           | BN           | International Standard Book Number (ISBN)   | Phrase        | S BN=0-8194-0430-6                 |
|               |              |   |               | S BN=0819404306                    |
| CD=           | CD           | Conference Date                             | Phrase        | S CD=20040126                      |
| CL=           | CL           | Conference Location                         | Word & Phrase | S CL=(SAN(W)JOSE)                  |
|               |              |   | Phrase        | S CL=SAN JOSE, CA?                 |
| CP=           | CP           | Country of Publication                      | Phrase        | S CP=USA                           |
|               |              |   |               | S CP=NEW ZEALAND                   |
| CS=           | CS           | Corporate Source                            | Word & Phrase | S CS=(INSTITUT(S)GEOGRAPHIQUE)     |
|               |              |   |               | S CS=JET PROPULSION?               |
| CT=           | CT           | Conference Title                            | Word          | S CT=(ULTRAFAST(W)PHENOMENA)       |
| CY=           | CY           | Conference Year                             | Phrase        | S CY=2004                          |
| DT=           | DT           | Document Type                               | Phrase        | S DT=JOURNAL ARTICLE               |
| FS=           | FS           | File Segment                                | Phrase        | S FS=COMPUTER & INFORMATION?       |
| —             | II           | Digital Object Identifier                   |               |                                    |
| JN=           | JN           | Journal Name                                | Phrase        | S JN=GEOPHYSICAL RESEARCH LETTERS? |
| LA=           | LA           | Language                                    | Phrase        | S LA=ENGLISH?                      |
| MC=           | MC           | Materials Classification                    | Phrase        | S MC=ALUMINUM BASE ALLOY?          |
| ML=           | ML           | Materials                                   | Phrase        | S ML=AL-4CU                        |
| NO=           | NO           | Document Number                             | Word & Phrase | S NO=DAAG29                        |
|               |              |   |               | S NO=DAAG29-75-C-0024              |
| —             | NR           | Number of References                        |               |                                    |
| —             | NT           | Note  |               |                                    |
| PD=           | PD           | Publication Date                            | Phrase        | S PD=20040700                      |
| PU=           | PU           | Publisher                                   | Word          | S PU=(AMERICAN(W)GEOPHYSICAL)      |
| PY=           | PY           | Publication Year                            | Phrase        | S PY=2004                          |
| RN=           | RN           | Report Number                               | Word & Phrase | S RN=5383                          |
|               |              |   |               | S RN=SPIE VOLUME 5401              |
| RT=           | RT           | Record Type                                 | Phrase        | S RT=ABSTRACT                      |
| SC=           | SC           | Subject Category                            | Phrase        | S SC=81                            |
| SH=           | SH           | Subject Category Text <sup>2</sup>          | Phrase        | S SH=PROBLEM SOLVING?              |
| SN=           | SN           | International Standard Serial Number (ISSN) | Phrase        | S SN=0094-8276                     |
| SO=           | SO           | Source Information                          | Word          | S SO=(GEOPHYSICAL(W)RESEARCH)      |
| UD=           | —            | Update                                      | Phrase        | S UD=9999                          |

**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

|                |   |                                     |
|----------------|---|-------------------------------------|
| <b>LIMIT</b>   | /ABS -- Record has an Abstract<br>/NOABS -- Record is a Citation Only Record<br>/YYYY -- Publication Year | S S3/ABS<br>S S3/NOABS<br>S S2/2004 |
| <b>SORT</b>    | AA, AU, CS, JN, PY, TI  | SORT S3/ALL/PY/D<br>SORT S1/ALL/TI  |
| <b>RANK</b>    | All phrase- and numeric-indexed fields in the Additional Indexes can be ranked.                           | RANK DE<br>RANK AU S4               |
| <b>RD, ID</b>  | Remove duplicates (RD) or identify duplicates (ID,IDO).   | RD S5                               |
| <b>CURRENT</b> | Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.                            | B 56 CURRENT2                       |

**PREDEFINED FORMAT OPTIONS**

| NO. | DIALOGWEB<br>FORMAT | RECORD CONTENT                        |
|-----|---------------------|---------------------------------------|
| 1   | --                  | DIALOG Accession Number               |
| 2   | --                  | Full Record except Abstract           |
| 3   | Medium              | Bibliographic Citation                |
| 4   | --                  | Full Record with Tagged Fields        |
| 5   | --                  | Full Record                           |
| 6   | Short               | Title and Publication Year            |
| 7   | Long                | Bibliographic Citation and Abstract   |
| 8   | Free                | Title, Indexing, and Publication Year |
| 9   | Full                | Full Record                           |

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For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

|                             |   |   |
|-----------------------------|---|---|
| <b>USER DEFINED FORMATS</b> | Display codes listed in the Search Options tables can be used to customize output.                    | TYPE S3/AU,TI/1-5<br>PRINT S2/TI,AB/ALL                             |
| <b>TAG</b>                  | Output can be displayed with tags identifying each display field.                                     | TYPE S2/5/1-5 TAG<br>PRINT S3/9/ALL TAG                             |
| <b>DIRECT RECORD ACCESS</b> | If the accession number of a specific record is known, it can be used to display the record directly. | TYPE 0000049991/5<br>DISPLAY 0000049991/AU,TI<br>PRINT 0000049991/9 |

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