

NCGIA Annual GIS Bibliography for 1993

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Chapter One

Introduction

The primary intent of this document and accompanying database is to provide electronic access to articles contained in GIS proceedings and book compendiums. At present, searching for such articles is typically done manually. If users find this document worthwhile, new editions are likely to be provided on a yearly basis.

1.1 Electronic Access to GIS Articles in Journals

Finding GIS articles in journals through electronic searches is now relatively straight-forward in most university libraries in the United States. Private database vendors such as *STN*, *Dialog*, *BRS* and *Wilsonline* offer online access and searching capabilities (for a fee) to hundreds of bibliographic databases incorporating thousands of journal titles. Similarly, consortiums of universities and research groups have pooled their resources to offer bibliographic searching capabilities to their members. Examples of such databases include *CARL uncover* (Colorado Alliance of Research Libraries) which any university may subscribe to and *MELVYL* (University of California System) which is available only to consortium members.

The NCGIA Annual GIS Bibliographies for 1991 and 1992 list journal titles which may be of interest to GIS researchers. Databases through which the journals may be accessed and searched are indicated. If you need help in using the databases, consult your university reference librarian for a quick lesson.

1.2 Electronic Access to GIS Articles in Conference Proceedings

Proceedings articles are the "gray literature" of most academic disciplines. Although the quality of proceedings articles is seldom controlled, proceedings articles form an important literature base. Conferences provide opportunities to present and explore new ideas, unproven concepts, and practical experiences. This type of material is often unacceptable for inclusion in refereed journal articles. Conferences also allow investigators to report research progress and preliminary findings in order to receive feedback from peers as their work progresses.

Unfortunately, GIS conference proceeding articles are only sporadically covered by the current online database services. Similarly, GIS books which contain articles or chapters written by different authors are difficult to access by the titles and authors of those chapters. The primary purpose of this document and accompanying data base is to provide bibliographic citations for all articles contained in the major GIS conference proceedings and book compendiums for the previous year.

The accompanying database may be used with desktop bibliographic software such as *EndNote Plus*, *Pro-Cite* or *BibIX/Refer(Unix)* to carry out various types of searches and to aid automatic generation of subject bibliographies. From a practical perspective, only authors, dates, and words in titles may be searched because neither key words nor abstracts have been entered into the database. As an alternative, the database may be printed and used as a straight-forward table of contents for the proceedings volumes listed. In that instance, the word search capabilities provided by many word processing programs may be of some value in searching for items of interest.

Conference proceedings included in the database for 1993 include the following:

Advances in Spatial Databases (Singapore)
AM/FM International Conference XV (Orlando)
AURISA '93 (Adelaide)
AutoCarto '93 (Minneapolis)
Canadian Conference on GIS '93 (Ottawa)
COSIT '93 (Elba, IT)
EGIS '93 (Genoa, IT)
GIS/LIS '93 (Minneapolis)
GIS - T '93 (Albuquerque)
Proceedings of the 5th Annual Spatial Information
Research Centre (Dunedin, NZ)
Symposium on Geographic Information Systems
and Water Resources (Mobile, AL)
URISA Annual Conference (Atlanta)

Compendiums included in the database for 1993 include the following:

Diffusion and Use of Geographic Information
Technologies: An Introduction
Masser and Onsrud, editors

Geographic Information Systems, Spatial Modelling,
and Policy Evaluation
Fischer and Nijkamp, editors

Human Factors in Geographical Information Systems
Medyckyj-Scott and Hearnshaw, editors

Please let us know if there are 1993 proceedings and compendiums in addition to those listed that you would like to see included in any update of the database.

For those unable to acquire the database through anonymous ftp, a hardcopy titled "NCGIA Annual GIS Bibliography for 1993" may be obtained for a nominal price from NCGIA. A 3.5 inch disk containing the same files as available at the ftp site is supplied with each hardcopy.

1.3 Acquiring Copies of the Database through Anonymous FTP

The GIS Bibliography for 1993 can be accessed through anonymous ftp at [ncgia.ucsb.edu](ftp://ncgia.ucsb.edu) (128.111.254.105) and at [grouse.umesve.maine.edu](ftp://grouse.umesve.maine.edu) (130.111.114.13).

The bibliography is contained in five different files for the convenience of different users.

GIS93.HQX
GIS93.PROCITE
GIS93.REFER
GIS93.PS
GIS93.TXT

At the ncgia.ucsb.edu site the first three files are contained in the subdirectory **pubs / biblio / 1993**. The GIS93.HQX file is an *Endnote Plus* document in compressed binary form. This file

must be "Unstuffed" using "Stuffit" software before being used directly in *Endnote* software on a MacIntosh. The "GIS93.PROCITE" file uses the *Pro-Cite* import/export format. The "GIS93.REFER" file uses the *Refer/BibIX* import/export format. These two files may be used on any platform (i.e DOS, MacIntosh, or UNIX) with *EndNote*, *EndNote Plus*, or any other bibliographic software packages that accept these formats.

For those who don't have desk top bibliography software, citations can also be accessed through postscript or ASCII formats. "GIS93.PS" and "GIS93.TXT" were created using the MLA bibliographic style and export function in *EndNote Plus*. These files are contained, respectively, in the following subdirectories: **pubs / biblio / postscript** and **pubs / biblio / text**. Whereas the first three files listed above contain only citations, these two files contain the accompanying written text (what you are now reading) and are therefore more appropriate for use if you want a finished hardcopy printout of the entire GIS Bibliography for 1993.

Sample entries for all formats are given below.

Sample Procite citation entry (GIS93.PROCITE):

@K Acevedo, William First Assessment of U.S. Geological Survey 30-Minute DEM's: A Great Improvement Over Existing 1-Degree Data Technical Papers of the 1991 ACSM-ASPRS Annual Convention Baltimore ACSM-ASPRS 1991 2 1-12

Sample Refer/BibIX citation entry (GIS93.REFER):

%0 Conference Proceedings
 %A Acevedo, William
 %D 1991
 %T First Assessment of U.S. Geological Survey 30-Minute DEM's: A Great Improvement Over Existing 1-Degree Data
 %B Technical Papers of the 1993 ACSM-ASPRS Annual Convention
 %V 2
 %P 1-12
 %C Baltimore
 %I ACSM-ASPRS

Sample postscript and ASCII citation entries (GIS93.PS and GIS93.TXT):

Acevedo, William. First Assessment of U.S. Geological Survey 30-Minute DEM's: A Great Improvement Over Existing 1-Degree Data. Technical Papers of the 1993 ACSM-ASPRS Annual Convention. Baltimore: ACSM-ASPRS, 1991. 2: 1-12.

You may note that the NCGIA GIS Bibliography for 1991 and 1992 are also on the server. All NCGIA on-line publications and datasets at the Santa Barbara site are also automatically accessible through the WAIS system (Wide Area Information Servers). Eventually, the Orono site will be set up to mirror the Santa Barbara site.

Copies of the 1991, 1992, and 1993 NCGIA Annual Bibliographies are also located on an internet site at the Department of Surveying Engineering, University of Maine, Orono. The site may be accessed through both FTP and gopher at **grouse.umesve.maine.edu**. Not all files available at the Santa Barbara site may be available at the Orono site. If you access the site by FTP, look in the directory **/pub/NCGIA/Biblio**. If you access the site by gopher, look in the folder **/National Center for Geographic Information and Analysis/Biblio**.

1.4 Technical Issues, Disclaimers and Limitations

Citations were scanned from the original table of contents of proceedings and other volumes using a *MacIntosh* computer and scanner with *OMNI Page* software. They were then edited and spell checked using *MS Word 5*, formatted in the Refer/BibIX format, and imported to *EndNote Plus*. A final editing was done in *EndNote Plus* and files were exported as noted above. Since the citations were scanned, they are in the same configuration as the original documents. That is, if the original citation was all capitals, so is the final citation. Likewise, citations to non-English articles are in the language of the article. All name spelling checks were done manually against the original documents. All citations were made using the "proceedings" or "book section" formats in *EndNote Plus*.

This document and accompanying database were prepared for the internal use of NCGIA researchers and may or may not be suitable for some purpose you intend. Although we have tried to list titles accurately, we make no guarantees, implied or otherwise, that the titles are accurate or comprehensive. We claim no rights in the factual list of article titles and encourage its free dissemination in digital form for academic purposes.

Mention of commercial product names in this document should not in any way be construed as endorsements of those products by NCGIA or the University of Maine.

Chapter Two

Ordering GIS Proceedings and Compendiums

The following is a list of the sources from which the GIS conference proceedings and compendiums mentioned in this bibliography may be ordered. Other sources may exist. Prices are in US dollars unless otherwise noted. Prices DO NOT include possible shipping and handling charges.

2.1 GIS Conference Proceedings

Advances in Spatial Databases

Advances in Spatial Databases (1 vol.) can be ordered from:

Springer-Verlag
175 5th Avenue
New York, NY 10010
USA

Tel: 800-777-4643
212-460-1500

ISBN: 0-387-56869-7
List price: \$72

AM/FM Conference

AM/FM Conference XVI Proceedings (1 vol.) may be ordered from:

AM/FM International
14456 East Evans Avenue
Aurora, CO 80014
USA

Tel: 303-337-0513
Fax: 303-337-1001

Price: \$75 for AM/FM International members
\$130 for nonmembers

AURISA '93

AURISA '93 (1 vol.) can be orderd from:

AURISA
Suite 5, 225 Rowe Street,
Eastwood, N.S.W.
Australia

Tel: +61 2 858 5695
Fax: +61 2 804 7072

Price: N/A

AutoCarto '93

AutoCarto '93 (1 vol.) can be ordered from:

ACSM
5410 Grosvenor Lane, Suite 100
Bethesda, MD 20814-2122
USA

Tel: 301-493-0200
Fax: 301-493-8245

Price: \$25 for ACSM members
\$35 for nonmembers

It can also be ordered from:

ASPRS
PO Box 1269
Evans City, PA 16033
USA

Tel: 412-772-0099
Fax: 412-772-5281

Price: \$25 for ASPRS members
\$35 for nonmembers

Canadian Conference on GIS '93

The Canadian Conference on GIS '93 Proceedings (1 vol.) can be ordered from:

The Canadian Institute of Geomatics
Box 5378, Station F
Ottawa, Ontario K2C 3J1
Canada

ISBN 0-919088-41-1

TEL: (613) 992-4902
FAX: (613) 952-0916

Price: N/A

COSIT '93

COSIT '93: Spatial Information Theory (1 vol.) can be ordered from:

Springer-Verlag
175 5th Avenue
New York, NY 10010
USA

Tel: 800-777-4643
212-460-1500

ISBN: 0-387-57207-4
List price: \$65

EGIS '93

EGIS '93 (2 vol.) can be ordered at:

EGIS Conference Bureau
Faculty of Geographical Sciences
P.O. Box 80.115
NL-3508 TC Utrecht
The Netherlands

fax: +31-30-523699
E-mail: egis@nexvax.frw.ruu.nl

Ordering Information
Volume I: ISBN 90-73414-11-3
Volume II: ISBN 90-73414-12-1
Both Volumes: ISBN 90-73414-10-5
For orders please apply to the EGIS Foundation in Utrecht

Price: Dfl. 125 = (both volumes, shipping and handling included)

GIS/LIS '93

GIS/LIS '93 (2 vol.) can be ordered from at least 4 different sources:

ACSM
5410 Grosvenor Lane, Suite 100
Bethesda, MD 20814-2122
USA

Tel: 301-493-0200
Fax: 301-493-8245

Price: \$45 for ACSM members
\$75 for nonmembers

It can also be ordered from:

ASPRS
PO Box 1269
Evans City, PA 16033
USA

Tel: 412-772-0099
Fax: 412-772-5281

Price: \$45 for ASPRS members
\$75 for nonmembers

Or it can be ordered from:

AM/FM International
14456 East Evans Avenue
Aurora, CO 80014
USA

Tel: 303-337-0513
Fax: 303-337-1001

Price: \$45 for AM/FM International members
\$75 for nonmembers

Or it can be ordered from:

URISA
900 Second St., NE, Suite 304
Washington, DC 20002
USA

Tel: 202-289-1685
Fax: 202-842-1850

Price: \$45 for URISA members
\$75 for nonmembers

GIS - T '93

GIS-T (GIS for Transportation Symposium - 1 vol.) proceedings can be ordered from:

American Association of State Highway and Transportation Officials
444 N. Capital St., NW, Suite 249
Washington, DC 20001
USA

Price: \$25.00

Proceedings of the 5th Annual Spatial Information Research Centre

Proceedings of the 5th Annual Spatial Information Research Centre (1 vol.) can be ordered from:

Spatial Information Research Centre
Department of Information Science University of Otago
P.O. Box 56
Dunedin
NEW ZEALAND

Tel: +64 3 479 8300
Fax: +64 3 479 8311

Price: \$NZ40 (plus \$NZ15 P+P)

Symposium on Geographic Information Systems and Water Resources

The Symposium on Geographic Information Systems and Water Resources proceedings (1 vol. - hardcover) can be ordered from:

American Water Resources Association
5410 Grosvenor Lane, Suite 220
Bethesda, MD 20814-2192

Tel: 301-493-8600
Fax: 301-493-5844

Price: \$76 AWRA members
\$95 for non members

URISA Annual Conference Proceedings

The URISA 1993 Conference proceedings (3 vol.) can be ordered from:

URISA
900 Second St., NE, Suite 304
Washington, DC 20002
USA

Tel: 202-289-1685
Fax: 202-842-1850

Price: \$60 for URISA members
\$75 for nonmembers

2.2 GIS Compendiums

Diffusion and Use of Geographic Information Technologies: An Introduction

Diffusion and Use of Geographic Information Technologies: An Introduction can be ordered from:

Kluwer Academic Publishers
PO Box 358, Accord Station
Hingham, MA 02018-0358
USA

Tel: 617-871-6600

ISBN: 0-7923-2190-15
List price: \$136

Geographic Information Systems, Spatial Modelling, and Policy Evaluation

Geographic Information Systems, Spatial Modelling, and Policy Evaluation can be ordered from:

Springer-Verlag
175 5th Avenue
New York, NY 10010
USA

Tel: 800-777-4643
212-460-1500

ISBN: 0-387-55454-8
List price: \$119

Human Factors in Geographical Information Systems

Human Factors in Geographical Information Systems can be ordered from:

GIS World, Inc.
115 E. Boardwalk Drive, Suite 250
Fort Collins, CO 80525, USA

Tel: 303-233-4848
Fax: 303-223-5700

Price: \$76

Chapter Three
Contents of
GIS Proceedings for 1993
in
Bibliographic Form

Third International Symposium, Advances in Spatial Databases Article Citations 1993

(Listed in order of appearance in the proceedings)

Kim, Won, Jorge Garza, and Ali Keskin. Spatial data management in database systems: Research directions. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 1-13.

Gueting, Ralf H., and Markus Schneider. Realms: A foundation for spatial data types in database systems. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 14-35.

Worboys, Michael F., and Petros Bofakos. A canonical model for a class of areal spatial objects. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 36-52.

Larue, Thierry, Dominique Pastre, and Yann Viemont. Strong integration of spatial domains and operators in a relational database system. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 53-72.

Pagel, Bernd-Uwe, Hans-Werner Six, and Henrich Toben. The transformation technique for spatial objects revisited. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 73-88.

Shaffer, Clifford A., and Patrick R. Brown. A paging scheme for pointer-based quadtrees. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 89-104.

Bruzzone, Elisabetta, Leila De Floriani, and Monica Pellegrinelli. A hierarchical spatial index for cell complexes. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 105-122.

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- Huang, Zhexue, and Per Svensson. Neighborhood query and analysis with GeoSAL, a spatial database language. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 413-436.
- Buehrer, Daniel J., and C. C. Chang. Application of a reciprocal confluence tree unit to similar-picture retrieval. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 437-442.
- Abdelmoty, A. I., M. H. Williams, and N. W. Paton. Deduction and deductive databases for geographic data handling. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 443-464.
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- Franklin, Wm Randolph, and Mohan Kankanhalli. Volumes from overlaying 3-D triangulations in parallel. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 477-489.
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- Otoo, Ekow J., and Hongwen Zhu. Indexing on spherical surfaces using semi-quadcodes. Third International Symposium, Advances in Spatial Databases. Singapore: Springer-Verlag, 1993. 1: 510-529.

AM/FM CONFERENCE XVI

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1993

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Druman, Charles H. BENEFITS OF TEMPORAL DATA WITHIN THE AM/FM ENVIRONMENT . Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 1-12.

White, Susan C. CASE TOOLS: BUILDING IN QUALITY. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 13-22.

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Salmi, George V. MULTIMEDIA, THE NEXT STEP. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 41-50.

Hansen, Charles A. WIRELESS COMMUNICATIONS FOR MOBILE GIS. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 51-64.

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Maddox, Marcus B. A ROADMAP TO SCANNING SYSTEMS EVALUATIONS. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 65-72.

Hull, Stephanie R. AN IN-HOUSE APPROACH TO DATA CONVERSION. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 73-84.

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Fukami, Yousuke. INTEGRATED TRAFFIC INFORMATION SYSTEM. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 145-156.

Montenegro, Marcos Helano Fernandes. THE INTRODUCTION OF THE GIS TECHNOLOGY IN THE MUNICIPAL WATER SUPPLY AND SEWERAGE SERVICE OF SANTO ANDRE- S.P. - BRASIL . Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 157-168.

- Ginther, Paul G. CONSTRUCTION OF A PIPELINE AM/FM/GIS MODEL. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 169-180.
- Howard, Charles D. PIPELINE SYMPOSIUM IMPLEMENTATION CONSIDERATIONS . Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 181-186.
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- Paris, Keith. TRIED-AND-TRUE FUNDING STRATEGIES. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 315-328.
- Laut, Molly. WHAT YOU HEARD IS NOT WHAT I SAID. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 329-342.
- DiSera, David P. A CASE STUDY OF ORGANIZATION OBSTACLES ASSOCIATED WITH AM/FM DEVELOPMENT. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 343-348.
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- Hohl, Pat. PROJECT EMPOWERMENT - THE EARLY STEPS CAN MAKE A DIFFERENCE. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 379-388.
- Meyers, Jeffrey R., Jack Dangermond, and Don Chambers. PROTOTYPING AMIFM/GIS APPLICATIONS: QUALITY/SCHEDULE TRADEOFFS. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 389-398.
- Austin, Robert F. TRAINING DOESN'T COST: IT PAYS. Proceedings of AM/FM Conference XVI. Orlando: AM/FM International, 1993. 1: 399.
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