

# Journal of Geographic Information System





## **Journal Editorial Board**

ISSN: 2151-1950 (Print) ISSN: 2151-1969 (Online)

http://www.scirp.org/journal/jgis

.....

#### Associate Editor-in-Chief

Prof. Francisco J. Tapiador University of Castilla-La Mancha (UCLM), Spain

#### **Editorial Board**

**Dr. Alia I. Abdelmoty** Cardiff University, UK

**Dr. Tofael Ahamed**University of Tsukuba, Japan

Prof. Dafer Algarni King Saud University, Saudi Arabia

Prof. Carlos Marcelo Di Bella Instituto de Clima y Agua CIRN-INTA Castelar, Argentina

**Prof. Christophe Claramunt** Naval Academy Research Institute, France

**Prof. Weihong Cui** International Europe and Asia Academy of Sciences, China

Prof. Fuchu Dai Chinese Academy of Sciences, China

Prof. Anrong DangTsinghua University, ChinaDr. Hossein GhadiriGriffith University, Australia

Prof. Shuanggen Jin Shanghai Astronomical Observatory, China

**Dr. Saro Lee**Korea Institute of Geoscience and Mineral Resources, South Korea

**Dr. Xiang Li** East China Normal University, China

Prof. Jordi Martí-Henneberg University of Lleida, Spain

**Prof. Hervé Martin**Joseph Fourier University, France

Prof. Mainguenaud Michel Institut National des Sciences Appliquées, France

**Prof. Christopher James Pettit**The University of Melbourne, Australia

Dr. Saied Pirasteh University of Waterloo, Canada

**Prof. Biswajeet Pradhan** Dresden University of Technology, Germany

**Dr. Michael D. Proctor**University of Central Florida, USA

**Dr. Xiaosheng Qin** Nanyang Technological University, Singapore

**Prof. Shih-Lung Shaw** University of Tennessee, USA

**Dr. P. S. Sriraj** University of Illinois at Chicago, USA

Dr. Eddy Lynn Usery Center of Excellence for Geospatial Information Science, USA

**Dr. Herna Viktor** University of Ottawa, Canada

Prof. Jianhua XuEast China Normal University, ChinaProf. Xiaohuan YangChinese Academy of Sciences, China

Prof. Axing Zhu University of Wisconsin, USA

**Dr. Liangfeng Zhu** East China Normal University, China



### TABLE OF CONTENTS

Volume 5	Number 3 Ju	ne 2013
• -	graphic Information Systems Mapping of Crop Products Featured Local  Suhendra, E. Haryatmi, F. Agustina	193
A Case Study	Aeromagnetic Data and Landsat Imagery for Structural Analysis Purposes: in the Southern Part of Jordan , N. Hammouri, M. Al Farajat, E. Salameh, A. Diabat, M. Hassoneh, R. Al-Adamat	100
Geo-Historica Al-Khiran Arc	and Geomorphological Evolution of the Sabkhas and Ridges at the ea, State of Kuwait	
Understanding	an, H. I. El-Gamily g the Urban Sprawl in the Mid-Size Latin American Cities through em: Analysis of the Concepción Metropolitan Area (Chile)	208
C. Rojas, I. M	uñiz, J. Pino	222
	cling and Cloud Implementation of a Reference Database of Addressing in Morocco inine, H. Rhinane, L. Baidder, H. Lechgar	235
	DRASTIC Model for Assessing Phreatic Aquifere of Bekalta (Tunisian Sahel)  A. Added, S. Abdeljaoued	242
	and Rock Mineralogy on Soil Erosion Features in the Merek Watershed, Iran N. M. Majid, S. Jusop, M. Gheitury, A. Abdu	248
	tion of the Geospatial Information to the Hydrological Modelling of a th Reservoirs: Case of Low Oum Er Rbiaa Basin (Morocco)	
Y. Kharchaf, H	I. Rhinane, A. Kaoukaya, A. Fadil	258
the Optimal L	Analysis of Smoking in Leeds: A GIS-Based Location-Allocation Technique for ocation of Smoking Cessation Services	
	M. O. Asikhia.	269
	DSS for Management of Water Distribution Networks (Rafah City as Case study)  R. A. Abeaid	281
	odels and GIS Technology in Environmental Planning and Landscape Management	292
	d Surface Temperature on the Frequency of Convective Precipitation in the Tokyo A	
Temporal Thr	ee-Dimensional Ontology for Geographical Information Science (GIS)—A Review  Rahman	

The figure on the front cover is from the article published in Journal of Geographic Information System, 2013, Vol. 5, No. 3, pp. 292-302 by Giuliana Lauro.

Copyright © 2013 SciRes.

#### **Journal of Geographic Information System (JGIS)**

#### **Journal Information**

#### SUBSCRIPTIONS

The *Journal of Geographic Information System* (Online at Scientific Research Publishing, www.SciRP.org) is published bimonthly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

#### **SERVICES**

#### Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

#### Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

#### **COPYRIGHT**

Copyright@2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

#### PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: jgis@scirp.org



# Call for Papers

## Journal of Geographic **Information System (JGIS)**

ISSN 2151-1950 (Print) ISSN 2151-1969 (Online) http://www.scirp.org/journal/jgis/

JGIS is an international refereed journal dedicated to the latest advancement of Geographic Information System. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these fast moving areas. The journal publishes the highest quality, original papers included but not limited to the fields:

#### **Subject Coverage**

- Cartography and Geodesy
- Computational Geometry
- Computer Vision Applications in GIS
- Distributed, Parallel, and GPU Algorithms for GIS
   Spatial Data Structures and Algorithms
- Earth Observation
- Environmental Geomatics—GIS, RS and Other **Spatial Information Technologies**
- Geographic Information Retrieval
- Geographical Analysis for Urban and Regional Development
- GIS and Cloud Computing
- GIS and High Performance Computing
- Human Computer Interaction and Visualization
- Image and Video Understanding
- Location Privacy, Data Sharing and Security
- Location-Based Services
- Performance Evaluation
- Photogrammetry
- Similarity Searching
- Social Networks and Volunteer Geographic
- Spatial Analysis and Integration

- Spatial and Spatio-Temporal Information Acquisition
- Spatial Data Mining and Knowledge Discovery
- Spatial Data Quality and Uncertainty
- Spatial Data Warehousing, OLAP, and Decision Support
- Spatial Information and Society
- Spatial Modeling and Reasoning
- Spatial Query Processing and Optimization
- Spatial Semantic Web
- Spatio-Temporal Data Handling
- Spatio-Temporal Sensor Networks
- Spatio-Temporal Stream Processing
- Spatio-Textual Searching
- Standardization and Interoperability for GIS
- Storage and Indexing
- Systems, Architectures and Middleware for GIS
- Traffic Telematics
- Transportation
- Visual Languages and Querying
- Wireless, Web, and Real-Time Applications

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the JGIS.

#### Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-mail

http://www.scirp.org/journal/jgis E-mail: jgis@scirp.org