

Newsletter of the Chinese Professional Geographic Information Science

April 2009



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Community News

CPGIS Gathering at AAG on March 24, 2009

The CPGIS annual gathering at AAG meeting was successfully organized in Las Vegas, Nevada on March 24, 2009. Approximately 70 CPGIS members and friends attended the event.

On behalf of the President, Dr. Fang Qiu summarized the major CPGIS activities and achievements in 2008. He introduced CPGIS 2009 Management Team, reviewed the successful 2008 annual conference, provided membership and payment guidelines, updated CPGIS website upgrade status, briefed on conference site selection procedure and result, and announced several awards. He expressed great appreciation to our members and friends; without their concern and support to CPGIS through these years, all these activities and achievements were impossible.

Committee reports regarding on-going activities were delivered: GoHome Committee report addressed by Dr. Le Wang, Summer Young Scholar Committee by Dr. Yongqing Tian, Newsletter Committee by Dr. Desheng Liu, Student Paper Competition Committee by Dr. Diansheng Guo (on behalf of Dr. Xun Shi), GIS Training Committee by Dr. Chaowei Yang, Poyang Lake Project Committee by Dr. Shuming Bao, CPGIS Journal Management and Publication Committee by Dr. Hui Lin, and Bylaw Review Committee by Dr. Bin Li.

Dr. Lin Liu briefed on the 2009-2010 BOD election and non-profit organization status of CPGIS. He thanked the BOD members for their devotion and the willingness to serve.

The meeting was followed by social activities. For convenience, membership application and renewal were accepted on site. For the first time, authorized by the BOD, the gathering provided drinks and light food. Attendees really enjoyed this gathering and the social time.

Member Notice

Address Confirmation for Free Journal Delivery

One of the benefits as a CPGIS member is to have free subscription of our Journal, published by Taylor and Francis Group. To make sure that each issue of the journal will be delivered to current address of each member, CPGIS requests all the members to update their addresses in the online database.

If you have any problem with the online system, please email to CPGIS General Secretary Mr. Liheng Zhong at lihengzhong@berkeley.edu.

Student Paper Competition Announcement

Student Paper Competition in Geoinformatics 2009

August 12-14, George Mason University, Fairfax, VA, USA

Eligibility

The first author should meet ALL the following requirements:

- A currently enrolled graduate or undergraduate student
- A member of CPGIS
- Made major contribution to the presented research

Awards

- one First-Place Award (\$600)
- one Second-Place Award (\$300)
- two Third-Place Awards (\$150 each)

Submission

- Abstract submission
Follow the instruction at <http://geoinformatics2009.org/submission.html>
- Full Paper submission (for accepted abstracts only)
Submit full paper by **May 1st, 2009** at <http://geoinformatics2009.org/submission.html>
and email another copy to the CPGIS Paper Competition Community Chair at xun.shi@dartmouth.edu

Full Paper Evaluation

- All full papers will be evaluated by international renowned scholars
- Selected papers will be invited to give oral presentations for the final competition

Conference Registration

- Register the conference through <http://geoinformatics2009.org/registration.html>
- Finish the conference registration before **May 22rd, 2009** with reduced rate

Oral Presentation

- Selected papers will be presented in the Paper Competition Section

Award Ceremony

- The awards will be presented in the closing ceremony of Geoinformatics 2009 on August 14th, 2009

Journal Announcements

1) IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS) Special Issue on Earth Observation Sensor Web

Submission Deadline: **September 30, 2009**

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS) calls for papers for the Special Issue on Earth Observation Sensor Web. The papers to be submitted should address one of the following problems/topics:

- Intelligent sensor observation systems
- Sensor web architecture and implementation
- Interoperability approaches and standards for sensor web
- Geospatial Web Services and workflow for sensor web
- Multi-scale sensor data fusion
- Collaborative sensing
- Information extraction to support content-based search and access to sensors and their observations
- On-demand processing for data reduction and improvement in information access to derived products from raw sensor observations
- Targeted data acquisition and rapid data assimilation to reduce forecast uncertainty
- Sensor data virtualization and on-demand product generation
- On-line data analysis systems
- E-Science and the sensor web
- Applications of sensor web technology to provide timely calibration and validation of sensors
- Applications of sensor web technology to time-critical monitoring tasks, such as severe weather, disaster, wildfire, volcano
- Applications of sensor web technology in societal benefit areas of Earth observation
- Other topics related to sensor web

Prospective authors should follow the regular guidelines of J-STARS and submit their manuscripts electronically via <http://mc.manuscriptcentral.com/jstars> indicating that the paper is intended for the “Sensor Web Special Issue”. Inquiries concerning the Special Issue should be directed to the Guest Editors:

Prof. Liping Di, email: ldi@gmu.edu
Center for Spatial Information Science and Systems
George Mason University, USA

Ms. Karen L. Moe, email: Karen.Moe@nasa.gov
Earth System Technology Office, NASA/GSFC, USA

Mr. Terence L. van Zyl, email: tvzyl@meraka.org.za
ICT for Earth Observation, Meraka Institute, South Africa

2) Remote Sensing Journal Special Issues

Remote Sensing (ISSN 2072-4292) is an international journal on remote sensing and its applications. It is published online quarterly starting 2009. It calls for papers for several special issues:

Special Issue: Geomorphological Processes and Natural Hazards
Submission Deadline: **31 July 2009**

Special Issue: Land Surface Fluxes
Submission Deadline: **31 July 2009**

Special Issue: LiDAR
Submission Deadline: **31 August 2009**

Special Issue: Ocean Remote Sensing
Submission Deadline: **31 August 2009**

Special Issue: Remote Sensing in Seismology
Submission Deadline: **31 August 2009**

Special Issue: Microwave Remote Sensing
Submission Deadline: **30 September 2009**

Special Issue: Ecological Status and Change by Remote Sensing
Submission Deadline: **30 September 2009**

Special Issue: Feature Papers
Submission Deadline: **31 December 2009**

For more information, please visit <http://www.mdpi.com/journal/remotesensing>.

Conference and Workshop Announcements

1) CPGIS 2009 Young Scholar Summer Workshop

Beijing, China, June 18-20, 2009

Submission Deadline: **May 15, 2009**

CPGIS Young Scholar Summer Workshop (YSSW) (in some occasions called Young Scholar Summit) is an annual event held during the summer time in selected locations in China. As part of its mission, CPGIS offers YSSW as a member service and a platform to promote and foster academic exchanges among GIS professionals and students domestic and abroad. It is designed to benefit CPGIS members and GIS professionals from the hosting agencies in particular and across China in general. YSSW facilitates the exchange of research ideas, sharing of academic achievements, and professional as well as social networking among the participants. Starting from 2004, the past workshops have proven to be unique and successful, gaining great attention from domestic GIS professionals, practitioners, as well as students.

YSSW 2009 is co-organized by Capital Normal University and Peking University. The central theme will be “GIS and WWW in a Changing Computing Environment”. Topics related to this year’s theme include, but not limited to, those listed below; GIS research related to other substantial theoretical issues will also be considered.

- Geographical Information Retrieval
- Geo-spatial Semantic Web
- Digital Gazetteer
- Sensor Web
- Web 2.0 applied to Geographical Information
- Textually Represented Geographical Information
- Geo-ontology

These topics cover a wide range of frontier GI techniques with taking into account the rapid development of WWW. Invitees are currently registered CPGIS members, who graduated with a Ph.D. within the last five years; they can submit applications for participation in the event as potential speakers. Eight to ten speakers will be selected to present in the workshop. As a convention, the working language of the workshop is English. However, speakers may choose to use mandarin Chinese to deliver their presentations.

Interested members should send an abstract of about 500 words, in English, to the YSSW 2009 program committee at zhangjings@mail.cnu.edu.cn or liuyu@pku.edu.cn along with the name, title, and affiliation information by May 15, 2009. The CPGIS YSSW committee will review the submissions and make recommendations to the BOD of CPGIS for final selection. Invitation for participation will be sent out no later than May 20, 2009.

The workshop will provide partial financial coverage for international and local travel expenses. Six persons (8000 Yuan RMB for each) may be funded after a competition. The food and lodging during the workshop will also be supported. Equipments for classroom or conference room electronic presentation will be provided.

For more information, please contact:

In China:

Jing Zhang, email: zhangjings@mail.cnu.edu.cn
College of Resource Environment and Tourism
Capital Normal University, Beijing, China

Yu Liu, email: liuyu@urban.pku.edu.cn
Institute of Remote Sensing and Geographical Information Systems
Peking University, Beijing, China

Abroad:

Wanxiao Sun, email: sunwa@gvsu.edu
Grand Valley State University, USA

Yong Tian, email: Yong.Tian@umb.edu
University of Massachusetts Boston, USA

Xiaobai Yao, email: xyao@uga.edu
University of Georgia, USA

2) International Workshop on Virtual Changing Globe for Visualisation and Analysis

Wuhan, China, October 27-28, 2009

Submission Deadline: **July 21, 2009**

2009 International Workshop on Virtual Changing Globe for Visualisation and Analysis (VCGVA) aims at providing a timely forum for the exchange of state-of-the-art research results in the areas of virtual globes, context-aware visualisation/analysis and change detection and process modelling. This workshop will bring together researchers to address such issues as:

- Assessment of remote sensing data for generating and visualizing landscape and models
- Database generation for digital topographic and thematic mapping (including orthoimages and digital terrain models)
- Integration of multi-source and multi-scale data in local and regional landscape modelling and visualization applications
- Analysis of characteristics of multi-temporal data for extraction of attribute information
- Methodologies of computer assisted interpretation and analysis of multi-temporal data
- Temporal pattern recognition and time series analysis and modeling
- Methodologies for global monitoring, modeling and prediction
- Methodologies for extracting essential climate variables from long-term satellite observations
- Application and assessment of advanced visualization, virtual reality and multimedia methods for 2-D, 3-D and 4-D mapping tasks in stand-alone, mobile or web-based environments
- Use of virtual globes for geospatial data integration, visualization and analysis
- Assessment of context-aware visualization and analysis of image data and geodatabases

Full papers should be prepared according to the Guidelines for Authors Preparing Manuscripts for ISPRS Sponsored Meeting which can be found at <http://www.isprs.org/documents/orangebook/app5.html>. Authors are requested to follow the Manual for Presentation of Technical Papers at ISPRS Congress and Symposium at <http://www.isprs.org/documents/orangebook/app6.html>. Please indicate the special topic the paper addresses at the end of the abstract.

For more information, please visit <http://www.lmars.whu.edu.cn/vcgva2009/index.html>.

3) 3rd ICA Workshop on Geospatial Analysis and Modeling

Gävle, Sweden, August 6-7, 2009

Submission Deadline: **May 15, 2009**

Following the success of two previous workshops, the Third International Cartographic Association (ICA) Workshop on Geospatial Analysis and Modeling aims at bringing together researchers from relevant fields to address issues related to geospatial analysis and modeling. Papers of particular interest are those (1) develop visual and analytical tools for geospatial analysis and modeling, and (2) extract geospatial knowledge by applying these tools to huge arrays of geospatial data that become recently available. The tools and the knowledge constitute two major concerns for better spatial planning and decision making. Relevant topics include, but are not limited to:

- Cellular automata and agent based modeling
- Visual analytical tools for environmental and urban systems
- Analysis of human movement data
- Spatio-temporal data mining
- Hierarchies, scaling and fractal structure of geographic patterns
- Modeling vehicle dynamics and crowd behavior
- Patterns of human spatial behavior and migration
- Urban high-resolution morphology
- Small world modeling and spatial interactions

All manuscripts entailing 5000-6000 words should be in English, single column, single-spaced with figures and tables within the text. The manuscripts in MS Word 2003 format should contain authors' affiliation and email, abstract (no longer than 300 words), and up to five keywords. To submit, please use EasyChair at <http://www.easychair.org/conferences/?conf=3rdicaworkshop>

Proceedings will be organized before the workshop. The papers selected after their presentations at the workshop will follow a peer-review process for publication as a theme issue of the Computers, Environment and Urban Systems journal.

For more information, please visit <http://www2.hig.se/~bjg/ica/workshop2009>.

Job Announcements

1) Research Faculty Position at the Chinese University of Hong Kong

The Institute of Space and Earth Information Science (ISEIS) at the Chinese University of Hong Kong (CUHK) invites applications for a research faculty position at the Assistant Research Professor level and an instructor with the area of specialization in Earth System Science (ESS), biospheric and/or atmospheric remote sensing, modeling or data analysis. The candidate should have a Ph.D. in ESS, atmospheric or oceanic science, geo-information science, environmental sciences, remote sensing, or a related field.

Candidates for the Research Assistant Professorship should have demonstrated research capability as indicated by publications in refereed journals and PI or Co-I in grants and proposals and some teaching experience. The candidate is expected to develop his/her own vigorous research program, collaborate with colleagues on existing projects and teach graduate and/or undergraduate course(s).

Candidates for the Instructor position should have teaching experience for the appropriate course. The position is expected to assist and/or release the existing course workloads, which include Earth System Science, Earth observations, ESS data and analysis, remote sensing, atmospheric science, lithosphere, physical oceanography, and biosphere.

Application materials including full resume and contact information of three referees can be sent to the Personnel Office of The Chinese University of Hong Kong **by the end of June 2009**.

ISEIS operates an ENVISAT ground station to receive ASAR. A second station to receive CBERS-2B data is under development. It is equipped with a microwave radiometer, sky radiometer, disdrometer, an automated weather station, a spectral library and software such as ArcGIS ENVI, ERDAS, IDL, etc. ISEIS's main research areas include remote sensing and geographic information systems; climate change detection and mitigation; aerosol and climate interactions; coastal environment, estuary processes, and air-sea interactions; natural hazards; global and surface hydrology; agricultural monitoring; urban and metropolitan GIS, city planning and urban settlement environment; public health, Intelligent Transport System (ITS) and spatially integrated humanities and social science.

ISEIS offers M.Phil. and Ph.D. degrees in Geographic Information Science and a taught M.Sc. degree and an undergraduate minor program in Earth System Science, leading to a full ESS degree program in 2012. ISEIS is home to the National Joint Laboratory for GeoInformation Science, the Yuen Yuen Research Center for satellite Remote Sensing, Center for Housing Innovations, and is the first Asian member of the US University Sponsored Research Association (USRA) (URL: <http://www.iseis.cuhk.edu.hk>).

2) Research Scientist Positions at George Mason University

The Center for Spatial Information Science and Systems (CSISS), George Mason University invites applications for multiple research scientist positions.

Research Associate Professor: To provide scientific and technical direction to the analysis, fusion, and intercomparison of atmospheric products from multi-instrument space- and ground-based observations and model outputs for the NASA Goddard Interactive Online Visualization and Analysis Infrastructure (Giovanni) project. Duties will be to assess the existing applications and develop new algorithms to support Giovanni services; integrate science analysis tools; work with the instrument Science Teams to ensure science quality and accuracy; author peer-reviewed papers and deliver presentations; coordinate project milestones and deliverables; and initiate and contribute to grant proposals. Requirements are a Ph.D. in atmospheric sciences, experience in working with large scientific data sets, skills in developing software in an operationally-oriented environment, and proficiency in Unix/Linux operating systems and Perl/Python, C, and Fortran. Experience in IDL, GrADS and MatLab, WMS/WCS, and OPeNDAP is a plus. The applicant should have excellent verbal and written communication skills, ability to work as part of a team, and recent publications in the atmospheric sciences.

Science Analysts: To participate in a calibration working group of scientists and engineers from government labs and universities in support of GOES-R and NPOESS satellite instrument calibration, performance analysis, and data quality assurance. Duties include independent instrument test data analysis, oversight of calibration algorithm development for the ground processing systems, and independent analysis and verification of instrument calibration both pre- and post-launch. Requirements are a MS degree in physics, astronomy, or equivalent fields, experience in optical instrument development and performance analysis, and excellent data analysis skills using software tools such as IDL or Matlab. US citizenship or permanent residency is required.

Please send a curriculum vitae with names of three references to
Dr. Yuqi Bai, email: ybai1@gmu.edu
CSISS/GMU, 6301 Ivy Lane, Suite 620
Greenbelt, MD 20770, USA
Telephone: (301)345-3271

Positions are open until filled. George Mason University is an equal opportunity/affirmative action employer.

Success Story

香港中文大学正式成为USRA 第一所亚洲会员大学

香港中文大学太空与地球信息科学研究所（太空所）所长林琿教授应邀出席3月26日在美国国家科学院举行的大学太空研究协会（USRA）的四十周年庆典。

USRA 理事会在会议中正式宣布接纳香港中文大学成为该协会的第一所亚洲会员大学。林琿教授也应邀出席了USRA 协会理事会的晚宴，理事们对于中大的加盟表示热烈的欢迎，认为这是USRA 促进国际太空合作的重要举措，希望通过中大加强与中国在太空科技方面的交流与合作。

本次USRA 周年庆典的主题报告人包括美国阿波罗17号宇航员和前国会参议员 Harrison Schmitt 博士、第一个进行私人探空计划的女飞行员Anousheh Ansari 女士、前国防部次长Paul Kaminski 先生、以及欧洲宇航局局长和国际空间大学总监 Jean-Jacques Dordain 教授。

会议之前，USRA 特地安排林琿教授访问了美国太空总署（NASA）在加州的 Ames 研究中心的太空与地球科学实验室。林琿教授应邀作了《关于中国地球信息科技发展的回顾》的学术报告。访问期间，双方探讨了开展山火监测的无人驾驶遥感飞机的合作事宜。

USRA 是由美国国家科学院在1969年设立的促进太空科技进步组织，并得到美国太空总署的赞助。目前，USRA 成员包括美国哈佛大学、耶鲁大学、斯坦福大学、普林斯顿大学、加拿大多伦多大学等100所大学。

Newsletter members: Desheng Liu (chair), Jenny Q. Du, Qinghua Guo, Xin Miao, Jun Yang, and Jun Yan (WKU). This issue is compiled and edited by Jenny Q. Du. If you have any suggestions or comments, please send them to du@ece.msstate.edu.