



AAG Annual Meeting

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Paper Session:

3620 Symposium on Synergistic Advances of CyberGIS and Geography: Research Frontiers across CyberGIS and Geography

is scheduled on Thursday, 4/10/2014, from 4:40 PM - 6:20 PM in Room 20, TCC, First Floor

Sponsorship(s):

Cyberinfrastructure Specialty Group
Spatial Analysis and Modeling Specialty Group
Geographic Information Science and Systems Specialty Group

Organizer(s):

[Shaowen Wang](#) - University of Illinois at Urbana-Champaign
[Michael F. Goodchild](#) - University of California - Santa Barbara

Chair(s):

[Eric Shook](#) - Kent State University

Abstract(s):

4:40 PM Author(s): *Jianzheng LIU - Department of Urban Planning and Design, The University of Hong Kong
Weifeng LI - Department of Urban Planning and Design, The University of Hong Kong

Abstract Title: *An investigation into spatial structure of urban function using geo-tagged microblogs*

5:00 PM Author(s): *Hao Hu - University of Illinois at Urbana-Champaign
Shaowen Wang - University of Illinois at Urbana-Champaign
Tao Lin - University of Illinois at Urbana-Champaign

Abstract Title: *Quantifying spatial uncertainty: A case study on bioenergy facility location problem*

5:20 PM Author(s): *Colin Robertson - Wilfrid Laurier University
*Rob Feick - University of Waterloo

Abstract Title: *Nothing to look at here folks - move along: Hotspots and deserts in Flickr cityscapes.*

5:40 PM Author(s): *Dilip R Patlolla - ORNL
Harini Sridharan - ORNL
Anil M Cheriyyadat - ORNL
Vincent C Paquit - ORNL

Abstract Title: *A Scalable Computational Framework for Large-Scale Critical Infrastructure Mapping Using Satellite Imagery*

6:00 PM Author(s): *Mary J. Roderick, Ph.D. Candidate - University of Washington
Timothy L. Nyerges, Ph.D. - University of Washington

Abstract Title: *Structured Participation Toolkit: An Enabler for High-Performance Collaboration*

Session Description: AAG 2014 Symposium on Synergistic Advances of CyberGIS and Geography

Organizing Committee: Luc Anselin, Budhendra Bhaduri, Chen-Chieh Feng, Jianya Gong, Diansheng Guo, Michael Goochild, Krzysztof Janowicz, Mei-Po Kwan, Wenwen Li, Timothy Nyerges, Ed Parsons, Sergio Rey, Douglas Richardson, Anand Padmanabhan, Eric Shook, Alexandre Sorokine, Ming-Hsiang (Ming) Tsou, E. Lynn Usery, Shaowen Wang, Nancy Wilkins-Diehr, David White, Dawn Wright, Huayi Wu, and Chaowei Yang

CyberGIS - geographic information science and systems (GIS) based on advanced infrastructure of computing, information, and communication technologies (aka cyberinfrastructure or e-infrastructure) – has emerged over the past several years as a vibrant interdisciplinary field and played essential roles in enabling computing- and data-intensive geospatial research and education across a number of domains with significant societal impact. At AAG 2014, we plan to address synergistic advances of CyberGIS and Geography by building on the success of the CyberGIS Symposium @ AAG 2013 (with 17 paper and panel sessions and active participation from academia, government and industry). To this end, the AAG 2014 Symposium on CyberGIS and Geography is scheduled to take place during April 8-11, and will include a suite of panel and paper sessions.

Panel Sessions

- * CyberGIS and Geography: Fostering Synergistic Advances
- * CyberGIS as an Integration Science
- * CyberGIS Body of Knowledge
- * CyberGIS Education
- * Frontiers and Roadmaps: Academic, Governmental, Industrial Perspectives
- * 360-Degree Comparison – CyberGIS and Related (e.g., Cloud GIS, GeoWeb, Internet GIS, Mobile GIS, Online GIS, Spatial Computing, Geospatial and Spatial Cyberinfrastructure, Web GIS, etc.)
- * Turning Big Data to Rich Data and Knowledge: Roles of CyberGIS and Geography

Paper Sessions

- * Bridging CyberGIS and Sustainability Sciences
- * CyberGIS for Collaborative Geographic Sciences
- * CyberGIS for Complex Geographic Problem Solving
- * CyberGIS for Taming Big Data
- * CyberGIS, Linked Data, and Geospatial Semantics
- * Multi-scale Spatiotemporal Modeling and Simulation
- * Research Frontiers across CyberGIS and Geography
- * Synergistic Advances of CyberGIS and Data Sciences

Possible questions and topics addressed by the Symposium include but are not limited to:

- * How to educate the next-generation workforce with cutting edge CyberGIS and geographic knowledge?
- * What desirable advances in Geography may not be possible without CyberGIS?
- * What new research and education frontiers does CyberGIS represent?
- * What theories and principles of Geography can and should guide the development of CyberGIS?
- * What are major geographic challenges and questions to fuel CyberGIS innovation?
- * What are the best approaches to synergistically advancing CyberGIS and Geography?
- * What scientific breakthroughs does CyberGIS enable that would not otherwise have been possible without it?
- * Why is CyberGIS a complex systems science?

If you are interested in organizing any sessions as part of the symposium, please contact Shaowen Wang via shaowen@illinois.edu. To present a paper in any of the Symposium sessions, please register and submit your abstract online, and email your presenter identification number (PIN), paper title, and abstract to aag14@cybergis.org by December 3, 2013. We look forward to your submissions and participation!

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