



## AAG Annual Meeting

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### Paper Session:

#### 3520 Symposium on Synergistic Advances of CyberGIS and Geography: Multi-scale Spatiotemporal Modeling and Simulation

is scheduled on Thursday, 4/10/2014, from 2:40 PM - 4:20 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  
[Wenwu Tang](#) - University of North Carolina at Charlotte

#### Chair(s):

[Wenwu Tang](#) - University of North Carolina at Charlotte

#### Abstract(s):

**2:40 PM Author(s):** \*Xia Li - School of Geography and Planning, Sun Yat-sen University  
Xun Shi - Department of Geography, Dartmouth College  
Dan Li - College of Environmental Science and Traveling, Nanyang Normal University

Abstract Title: *Geosimulation-Optimization of Land Use under a Cyberinfrastructure (CI) Framework*

**3:00 PM Author(s):** \*Jonathan Kemp - Student

Abstract Title: *Applying a Community Resilience Framework to Assimilate, Organize, and Manage Post Disaster Recovery Data Using Geoinformatics*

**3:20 PM Author(s):** Zhenhua Chen - George Mason University  
\*Kingsley E. Haynes - George Mason University

Abstract Title: *Multilevel Assessment of Public Transportation Infrastructure: A Spatial Econometric Computable General Equilibrium Approach*

**3:40 PM Author(s):** \*Kathrin Hüb - Computer Graphics and HCI Group, TU Kaiserslautern  
Ariane Middel - Center for Integrated Solutions to Climate Challenges, Arizona State University  
Benjamin L. Ruddell - Department of Engineering and Computing Systems, Arizona State University  
Anthony J. Brazel - School of Geographical Sciences and Urban Planning, Arizona State University  
Chris A. Martin - Faculty of Science and Mathematics, School of Letters and Sciences, Arizona State University

Abstract Title: *Source area computation for microclimate measurements within the urban canopy layer*

**4:00 PM Author(s):** \*Ye Zhi -

Abstract Title: *An Activity-based Analysis Approach to Movement Similarity Assessment*

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**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 Utery, 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](mailto: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](mailto:aag14@cybergis.org) by December 3, 2013. We look forward to your submissions and participation!

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