



## AAG Annual Meeting

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### Paper Session:

#### 4202 CyberGIS Symposium: Science of CyberGIS

is scheduled on Friday, 4/12/2013, from 10:00 AM - 11:40 AM in Beaudry B, Westin, Lobby Level

#### Sponsorship(s):

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

#### Organizer(s):

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

#### Chair(s):

[Dawn Wright](#) - Environmental Systems Research Institute

#### Abstract(s):

**10:00 AM Author(s):** \*Shaowen Wang - University of Illinois at Urbana-Champaign

Abstract Title: *An Integration Vision and Roadmap for CyberGIS*

**10:20 AM Author(s):** \*Qunying Huang - George Mason University  
Chaowei Yang - George Mason University

Abstract Title: *Using MapReduce and cloud computing to support geospatial processing*

**10:40 AM 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: *Assessing Uncertainties in CyberGIS-Based Spatial Decision Making: A Spatial Optimization Case Study*

**11:00 AM Discussant:** [Daniel Sui](#) - The Ohio State University

**11:10 AM Discussant:** [Michael Goodchild](#) - University of California - Santa Barbara

#### Discussant(s):

[Daniel Sui](#) - The Ohio State University  
[Michael Goodchild](#) - University of California - Santa Barbara

**Session Description:** Organizing Committee: Luc Anselin, Budhendra Bhaduri, Chen-Chieh Feng, Michael Goodchild, Krzysztof Janowicz, Timothy Nyerges, Anand Padmanabhan, Alexandre Sorokine, Ming-Hsiang (Ming) Tsou, E. Lynn Usery, Shaowen Wang (Chair), Nancy Wilkins-Diehr, Dawn Wright, and Chaowei Yang

CyberGIS - defined as cyberinfrastructure-based GIS - has emerged as a new generation of GIS representing an important research domain within the contexts of both cyberinfrastructure and GIScience while empowering extreme digital transformation of geographic research and education. We are organizing a series of CyberGIS activities as part of AAG 2013, including multiple panels and paper sessions, to facilitate the sharing

of the state of the art and discussions about opportunities and challenges, cutting-edge progress, and major trends and impacts of CyberGIS.

#### Panel Sessions

CyberGIS and Sustainability Sciences: Making Connections  
CyberGIS Education  
From Big Data to the Long Tail: Data Discovery, Archiving, Workflows, and Integration from the NSF DataNet Projects  
Frontiers and Roadmaps: Academic Viewpoints  
Industry Perspectives

#### Paper Sessions

CyberGIS Applications  
CyberGIS, Linked Data, and Geospatial Semantics  
CyberGIS for Supporting Climate Studies  
CyberGIS and Sustainability Sciences: Approaches, Cases, and Concepts  
CyberGIS for Taming Big Data  
Geospatial Ontology, Semantics, and Metadata (2 sessions)  
GIS&T BoK - Making Space for Knowledge  
Science of CyberGIS  
Technologies and Social Dimensions  
Time Geography (2 sessions)

#### Sponsors

Cartography Specialty Group  
CyberInfrastructure Specialty Group  
Geographic Information Systems and Science Specialty Group  
Spatial Analysis and Modeling Specialty Group

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