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(58) 2013 AAG Annual Meeting, Los Angeles, California

AAG Annual Meeting

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Paper Session:

4510 Spatiotemporal Thinking, Computing and Applications 9: Agent based modeling

is scheduled on Friday, 4/12/2013, from 2:40 PM - 4:20 PM in San Gabriel A, Westin, Lobby Level

Sponsorship(s):
Spatial Analysis and Modeling Specialty Group
Cyberinfrastructure Specialty Group
Geographic Information Science and Systems Specialty Group

Organizer(s):
Chaowei Yang - George Mason University
Weihe Wendy Guan - Harvard University

Chair(s):
Keith Clarke - University Of California, Santa Barbara

Abstract(s):

2:40 PM   Author(s): *Einar Holm, prof - Umeå University

 Abstract Title: *Spatial, socioeconomic impact of infrastructure endowments - a case for agent based spatial micro simulation*

2:58 PM   Author(s): *Yu-Gyung Na - Kyung Hee University
Won Do Lee, Ph.D.Candidate - Kyung Hee University
Chang-Hyeon Joh, Associate Professor - Kyung Hee University

 Abstract Title: *Agent-Based Modeling and Simulation for Evacuation in Extreme Weather Events*

3:16 PM   Author(s): *Arthur Elmes, M.A. - Clark University
Tim Warner, Ph.D. - West Virginia University
Jamison Conley, Ph.D. - West Virginia University
Rick Landenberger, Ph.D. - West Virginia University

 Abstract Title: *GIS-Remote Sensing Integration in the context of Agent Based Modeling: A case study of Ailanthus altissima invasive species modeling*

3:34 PM   Author(s): *Qianting Zhu - China University of Petroleum(Beijing)
jing wu - chinese academy of science
zheng wang - chinese academy of science

 Abstract Title: *Research on carbon trading market: A agent-based simulation*

3:52 PM   Author(s): *Nanyin Zhou - George Mason University
Min Sun - George Mason University
Manzhu Yu - George Mason University
Chaowei Yang - George Mason University
David Wong - George Mason University

 Abstract Title: *Analyzing Spatiotemporal Patterns of Geographers' Career Path*

4:10 PM   Discussant: Mike Batty - UCL CASA

Discussant(s):
Mike Batty - UCL CASA

Session Description: Following the success of last year's spatiotemporal thinking, computing and application sessions, we are organizing a series of paper and panel sessions on STCA to continue the discussion and to take the first steps toward building a research agenda. The topics include but are not limited to
1.   What are spatiotemporal thinking, computing and applications?
2.   Are there undiscovered spatiotemporal principles or laws?
3.   Forming and/or utilizing spatiotemporal thinking as a methodology and innovative conceptual process to develop geographic science discovery and application.
4.   How do we detect spatiotemporal changes using remote sensing and sensor web technologies?
5.   What are the new computing, software, and application products to address spatiotemporal problems?
6.   How can spatiotemporal thinking and computing be used to manage and develop cloud computing and Big Data solutions?
7.   How can spatiotemporal thinking and computing be used to optimize agent based modeling?
8.   Exploration of spatiotemporal patterns for various geographic sciences, such as climate change, ocean science, environmental science, disaster and sustainability studies.
9.   Does a spatiotemporal approach facilitate better understanding of the physical and social sciences?
10.   How do we educate the next generation workforce with spatiotemporal knowledge and methods?
11.   How best to communicate spatiotemporal knowledge.

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