Paper Session:

5116 Land Change Modeling I: Methods and Techniques

is scheduled on Saturday, 4/12/2014, from 8:00 AM - 9:40 AM in Room 16, TCC, First Floor

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

Organizer(s):
Ting Liu - Florida State University
Xiaojun Yang - Florida State University

Chair(s):
Ting Liu - Florida State University

Abstract(s):

8:00 AM Author(s): *Kang S Lu, Ph.D. - Towson University
Xiaofeng Wang, Ph.D. - Shaanxi Normal University

Abstract Title: *Geographically Weighted Artificial Neural Networks for Multicore Urban Growth Modeling*

8:20 AM Author(s): *Gordon M Green - City University of New York

Abstract Title: *Modeling Land Cover Change Using On-Demand Simulation*

8:40 AM Author(s): *Gargi Chaudhuri - University of Wisconsin La Crosse

Abstract Title: *Urban Growth Forecasting: Limits of temporal accuracy in SLEUTH land use change model*

9:00 AM Author(s): *Michelle L Johnson - University of Maine
Spencer R Meyer - University of Maine
Robert J Lilieholm, PhD - University of Maine
Christopher S Cronan, PhD - University of Maine

Abstract Title: *Integrating storylines with a spatial allocation model to construct land use scenarios of future development and land conservation patterns*

9:20 AM Author(s): *Michael Page - Emory University

Abstract Title: *Taking Measure of the Samothrace Landscape*

Session Description: Land changes are a complex process in which human and natural systems interact over space and time. And geospatial modeling techniques can enhance our understanding of the land change process. Over the past several decades, various modeling approaches have been developed, including statistical models, rule-based models, mathematical optimization, cellular automata, agent-based models, and hybrid models. They provide insights into the functioning of land changes at aggregated and individual levels, across various spatio-temporal scales, as well as in human, natural, or the coupled systems. This session provides a forum for researchers to exchange new

ideas in theories, methods, and techniques relating to the development of geospatial models for land change simulation. Topics may include but are not limited to:

- Model conceptualization: representation of complexity, human-environment interactions, decision-making, and spatial and temporal scales;
- Model implementation: data integration, computational algorithms, and parameter calibration;
- Model validation: landscape pattern characterization, uncertainty, and error measurements;
- Model applications: scenario design, implementation, and applications; and
- Roles of GIS and remote sensing in land change modeling.

Submission Procedure

Abstract submission details are available in recent issues of the AAG newsletter and at the AAG 2014 website (http://www.aag.org/cs/annualmeeting). Please go through the online submission system, and then send us (tl08c@my.fsu.edu) an email containing: (1) Your name, presentation title, and abstract; and (2) The "Participant Number" assigned to you by the online registration system. The deadline for receiving all application materials from presenters is December 1, 2013

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