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(60) 2015 Annual Meeting, Chicago, Illinois

Paper Session:

2127 CyberGIS Symposium: CyberGIS for Modeling Spatiotemporal Uncertainty

is scheduled on Wednesday, 4/22/2015, from 8:00 AM - 9:40 AM in Grand Suite 5, Hyatt, East Tower, Gold Level

Sponsorship(s):
Spatial Analysis and Modeling Specialty Group
Cyberinfrastructure Specialty Group

Organizer(s):
Guofeng Cao - University of Illinois at Urbana-Champaign
Shaowen Wang - University of Illinois at Urbana-Champaign

Chair(s):
Guofeng Cao - University of Illinois at Urbana-Champaign

Abstract(s):

8:00 AM Author(s): *Ick Hoi Kim - National University of Singapore

Abstract Title: *Positional Uncertainty of Historical Paper Maps*

8:20 AM Author(s): *Guofeng Cao - University of Illinois at Urbana-Champaign

Abstract Title: *Representing spatiotemporal uncertainty in function spaces*

8:40 AM Author(s): *Ian Kramer - USC

Abstract Title: *A Spatial Temporal and Contextual Modeling Approach for Assigning Uncertainty to Social Media*

9:00 AM Author(s): *Christopher Amante, M.A. - University of Colorado Boulder

Abstract Title: *Spatiotemporal uncertainty of sea-level-rise inundation modeling*

Session Description: Spatiotemporal uncertainty is associated with the disagreement between spatiotemporal data and the corresponding geographic phenomena they represent. In principle, all types of spatiotemporal data are subject to uncertainty due to the complexity of representing geographic dynamics. Modeling of spatiotemporal uncertainty has been recognized as a major challenge for utilizing spatiotemporal data with scientific rigor. Through seamless integration of cyberinfrastructure, geographic information science and systems, and spatiotemporal analysis and modeling, cyberGIS provides ideal support for modeling spatiotemporal uncertainty. This session focus on sharing the state-of-the-art of cutting-edge cyberGIS approaches to modeling uncertainty of spatiotemporal measurements in various spatiotemporal contexts (including but not limited to land use and land cover changes, public health, transportation and socio-economic studies), and evaluating the impact of the uncertainty in spatiotemporal analysis, modeling and decision making.

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