Paper Session:

1188 Spatial Data Mining and Big Data Analytics (1)

is scheduled on Tuesday, 4/21/2015, from 8:00 AM - 9:40 AM in 304 Classroom, University of Chicago Gleacher Center, 3rd Floor

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

Organizer(s):
Diansheng Guo - UNIVERSITY OF SOUTH CAROLINA
May Yuan - University of Texas - Dallas
Harvey J. Miller - The Ohio State University

Chair(s):
Luke Richard Barnesmoore - University of British Columbia

Abstract(s):

8:00 AM Author(s): *Guy Lansley - UCL
Adnan Muhammad - UCL
Paul Longley - UCL

Abstract Title: *The geography of topics from geo-referenced social media data in London*

8:20 AM Author(s): Yue Li - School of Civil Engineering, Purdue University
*Jie Shan - Purdue University

Abstract Title: *Mining Geo-tagged Tweets: a Study of Four Midwest College Cities*

8:40 AM Author(s): *Yuan Huang - University of South Carolina
DianSheng Guo, Dr - University of South Carolina

Abstract Title: *Mapping US dialect boundaries by querying social media*

9:00 AM Author(s): *Jing Li - University of Denver
Tong Zhang - Wuhan University
David Wong - George Mason University, University of Hongkong

Abstract Title: *Remote visualization of open geospatial data: a view-dependent saliency driven approach*

9:20 AM Discussant: Luke Richard Barnesmoore - University of British Columbia

Discussant(s):
Luke Richard Barnesmoore - University of British Columbia

Session Description: Big and dynamic spatial data have been, and continue to be, collected with modern data acquisition techniques such as global positioning systems (GPS), high-resolution remote sensing, census surveys, and internet-based volunteered geographic information.While these data offer unprecedented opportunities to advance

our understanding of complex geographic processes and phenomena, there are many challenging research questions in analyzing such data to obtain new knowledge. We invite research contributions in the theory, methodology, implementation, and application of spatial data mining, simulation, and visual analytics for big spatial data analytics. Potential topics include (but not limited to):

Theories and models to represent, quantify, and enable discovery of new types of spatial patterns and relationships;

Computational, statistical, and visual analytical methodologies for big data analytics, knowledge discovery, and decision support in geographic domains;

Domain-specific data analytics and applications: public health, spatial epidemiology, transportation, urban mobility, climate change, crime analysis, migration, geo-social networks, among others;

Simulation, benchmark data generation, complexity modeling, predictive analytics;

Big data collection, curating and management methodologies for heterogeneous data, e.g., texts, videos, images, etc.

Organizing Committee (in alphabetical order):

Clio Andris (Pennsylvania State University)
Diansheng Guo (University of South Carolina)
Jeremy Mennis (Temple University)
Harvey Miller (The Ohio State University)
Shaowen Wang (University of Illinois at Urbana-Champaign)
Chaowei Yang (George Mason University)
May Yuan (University of Texas at Dallas)

New Query