



AAG Annual Meeting

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Paper Session:

2274 Spatiotemporal Symposium: Emerging Topics in Data-driven Geography (2)

is scheduled on Wednesday, 4/22/2015, from 10:00 AM - 11:40 AM in Lucerne 2, Swissôtel, Lucerne Level

Sponsorship(s):

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

Organizer(s):

[Song Gao](#) - UC Santa Barbara
[Bo Zhao](#) - The Ohio State University

Chair(s):

Linna Li - California State University, Long Beach

Abstract(s):

10:00 AM Author(s): *Yingjie Hu - UC Santa Barbara
Song Gao - UC Santa Barbara
Krzysztof Janowicz - UC Santa Barbara
Bailang Yu - East China Normal University
Wenwen Li - Arizona State University
Sathya Prasad - Esri Inc.

Abstract Title: *Extracting and Understanding Urban Areas of Interest Using Geotagged Photos*

10:20 AM Author(s): *Marta Jankowska - University of California San Diego
Jasper Schipperijn - University of Southern Denmark
Jacqueline Kerr - University of California San Diego
Kristin Meseck - University of California San Diego

Abstract Title: *Data-Driven Approaches for Future Inquiry into Environmental Correlates with Physical Activity*

10:40 AM Author(s): *Hu Shao - Arizona State University
Yi Zhang - Peking University
Wenwen Li - Arizona State University

Abstract Title: *Extraction and Analysis of Tourists' Spatiotemporal Behavior Based on Social Media Data*

11:00 AM Author(s): *Shenyue Jia - University of California, Los Angeles
Gregory S. Okin - University of California, Los Angeles

Abstract Title: *Dealing with the Complexity through Comprehensive Description: A Case Study on Dynamics of MODIS-derived Ground Components and their Response to Climate Anomalies*

11:20 AM Discussant: Michael F. Goodchild - University of California - Santa Barbara

Discussant(s):

Michael F. Goodchild - University of California - Santa Barbara

Session Description: As the context for geographic research evolves from a data-scarce to a data-rich or big data environment, a data-driven geography (Miller and Goodchild, 2014) is emerging during the recent years. This trend sheds new light on geographic knowledge discovery and spatial modeling, and brings about innovative developments in technologies and applications. While presenting myriad possibilities for transforming cross-disciplinary studies intersecting with geographic research, the proliferation of data-driven geography also confronts unprecedented legal and ethical challenges, such as geo-privacy, national security, and global changes. Though still cautious about a discipline dictated rather than driven by data per se, geographers gradually reach a consensus that we are entering a new, fourth phase of geographic studies. Thus, with the emergence of data-driven geography, we hope that the session will generate discussions in this emerging area of research, with the goal of long-term community-building on the topic. This session will be part of the Symposium on Spatiotemporal Thinking, Computing and Applications.

We solicit original research papers (including significant works-in-progress) on emerging topics in data-driven geography. Specific topics of interest include but are not limited to: Crowd sourcing and volunteered geographic information. Big (geo) data assessment (Goodchild, 2013), uncertainty and creditability of locational information.

Geographic knowledge discovery, innovative methods in big data collection, visualization, manipulation, and evaluation.

Innovative prototypes of big (geo) data (commercial or open) software, hardware, and infrastructures.

The multifaceted social, legal and ethical issues raised by the conduct of data driven approaches.

Data-driven applications in geographic domains, including but not limited to geo-enabled social media, location based services, and remote sensing data fusion.

References

Miller, H. J., & Goodchild, M. F. (2014). Data-driven geography. *GeoJournal*, 1-13.
Goodchild, M. F. (2013). The quality of big (geo) data. *Dialogues in Human Geography*, 3(3), 280-284.

Organizing Committee:

Linna Li Chair (California State University, Long Beach, linna.li@csulb.edu)
Bo Zhao Co-chair (The Ohio State University, zhao.662@osu.edu)
Song Gao (University of California, Santa Barbara, sgao@geog.ucsb.edu)

Discussants:

Michael F. Goodchild (University of California, Santa Barbara)
Daniel Z. Sui (The Ohio State University)
Harvey J. Miller (The Ohio State University)

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

If you are interested in giving a presentation in this session, please email your abstract, contact information, and the presenter's identification number (PIN received from the AAG after online registration, <http://www.aag.org/cs/annualmeeting/register>) to one of the organizers by November 19, 2014.

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