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(60) 2015 Annual Meeting, Chicago, Illinois

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AAG Annual Meeting

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Paper Session:

2174 Spatiotemporal Symposium: Emerging Topics in Data-driven Geography (1)

is scheduled on Wednesday, 4/22/2015, from 8:00 AM - 9:40 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):
Bo Zhao - The Ohio State University
Song Gao - UC Santa Barbara

Chair(s):
Linna Li - California State University, Long Beach

Abstract(s):

8:00 AM   Author(s): *Zhenghong Tang - University of Nebraska-Lincoln
Yanfu Zhou - University of Nebraska-Lincoln
Hongfeng Yu - University of Nebraska-Lincoln

 Abstract Title: *Integrate Citizen Science and Environmental Big Datasets for Environmental Conservation: A Case Study for "Nebraska Wetland" Mobile Information Platform*

8:17 AM   Author(s): *Bo Zhao - The Ohio State University
Daniel Z Sui - The Ohio State University

 Abstract Title: *Detecting Location Spoofing in Social Media using Geographic Knowledge*

8:34 AM   Author(s): *Michael R. Ratcliffe - U.S. Bureau of the Census

 Abstract Title: *Virtual Canvassing: In-Office Methods for Validating the Census Bureau's Address List for the 2020 Census*

8:51 AM   Author(s): *Willard Schulmeister - State University of New York at Buffalo

 Abstract Title: *Children and Web 2.0*

9:08 AM   Discussant: Daniel Z. Sui - The Ohio State University

9:24 AM   Discussant: Harvey J. Miller - The Ohio State University

Discussant(s):
Daniel Z. Sui - The Ohio State University
Harvey J. Miller - The Ohio State University

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.

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.
Reference:
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
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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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