



## AAG Annual Meeting

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### Paper Session:

#### 2490 Spatial Data Mining and Big Data Analytics (7)

is scheduled on Wednesday, 4/22/2015, from 1:20 PM - 3:00 PM in 406 Classroom, University of Chicago Gleacher Center, 4th 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):

[Shaun Arthur Langley](#) - Urban GIS

#### Abstract(s):

**1:20 PM Author(s):** \*Joris Beckers - University of Antwerp  
Ann Verhetsel - University of Antwerp  
Thomas Vanoutrive - University of Antwerp  
Isabelle Thomas - Université catholique de Louvain

Abstract Title: *Geographical Clustering of Buyer-Supplier Linkages in the Logistics Sector in Belgium*

**1:40 PM Author(s):** \*Michiel De Meyere - University of Antwerp  
Thomas Vanoutrive - University of Antwerp  
Ann Verhetsel - University of Antwerp

Abstract Title: *Assessing Daily Urban Systems in Belgium: A Network Approach Based on Commuting Flows*

**2:00 PM Author(s):** \*Tracy Onega, Ph.D, M.A., M.S. - Dartmouth College  
Jennifer Alford-Teaster, MA, MPH - Dartmouth College  
Steven Andrews, PhD - Dartmouth College  
Mike Perez, JD - Exaptive  
David King, BS - Exaptive  
Craig Ganoe, MS - Dartmouth College  
Bridget Melvin, BS, '16 - Dartmouth College  
Xun Shi, PhD - Dartmouth College

Abstract Title: *Development of a dynamic web-integrated spatio-temporal platform for national monitoring of technology diffusion: the example of digital breast tomosynthesis*

**2:20 PM Author(s):** \*Kevin Gingerich - University of Windsor  
Hanna Maoh - University of Windsor  
William Anderson - University of Windsor

Abstract Title: *Utilizing spatial patterns to identify the purpose of a stopped truck: An application of entropy to GPS data*

**2:40 PM Author(s):** \*Shaun Arthur Langley - Urban GIS

Ashton M Shortridge - Michigan State University

Abstract Title: *Managing extremely large volumes of data in a geodatabase*

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**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.

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