Paper Session:

3577 Spatiotemporal Symposium: Public Health

is scheduled on Thursday, 4/23/2015, from 3:20 PM - 5:00 PM in Alpine 2, Swissôtel, Lucerne Level

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

Organizer(s):
Min Sun - George Mason University
Weihe Wendy Guan - Harvard University
Chaowei Yang - George Mason University

Chair(s):
Weihe Wendy Guan - Harvard University

Abstract(s):

3:20 PM Author(s): *Shiran Zhong - University at Buffalo, The State University of New York
Ling Bian - University at Buffalo, The State University of New York

Abstract Title: *Temporal Analysis and Link Prediction of Location Networks in the Context of ILI Transmissions*

3:40 PM Author(s): *Dan Cheng - University at Buffalo, SUNY
Geoffrey M. Jacquez - University at Buffalo, SUNY

Abstract Title: *Spatial and Temporal Analysis for Potential Exposures to Breast Cancer in Marin County, California*

4:00 PM Author(s): *Serpil Mentese - Balikesir University
Sermin Tagil - Balikesir University

Abstract Title: *Temporal Relationship between Air Pollution and Hospital Admissions for Respiratory Diseases in Bilecik, Turkey*

4:20 PM Author(s): *Melinda Kathleen Butterworth - University of Arizona

Abstract Title: *Climate change and disease: dengue fever (re)-emergence in the southern United States*

4:40 PM Author(s): *Jason K. Blackburn, PhD - University of Florida
Eric Dougherty, BS - University of California, Berkeley
Lillian R Morris, MS - University of Florida
Wayne M. Getz, PhD - University of California, Berkeley

Abstract Title: *Examining Seasonal Home Ranges in Wildlife During Anthrax Risk Periods: Comparing Space-Only and Space-Time Balanced Home Range Estimation Approaches*

Session Description: Many 21st century challenges, such as climate change, infrastructure, natural disaster and interdisciplinary discovery, exist within a 4-dimensional (3D space and 1D time) framework. Integrating our understanding and methods across all four dimensions would lead to new approaches to help us address the challenges by providing: 1) new methodologies to improve our knowledge; 2) new computational tools and software to advance relevant technologies; and 3) applications to directly address the challenges. For example, how could we save thousands more lives if an earthquake hits a densely populated area or a huge volcano erupted near a major city? A spatiotemporally aware and optimized approach could help advance GIScience, Cyberinfrastructure, Cloud Computing, Big Data, Social Media, Digital Earth and future generations of GIS and geographic solutions. A better understanding of the spatiotemporal linkage among different domains of geography would enable us to address problems that were previously unsolvable.

Following the great success on ST symposium last year, we are organizing a series of sessions (paper and panel, etc.) again at 2015 AAG annual meeting to continue moving the discussion forward and gradually build a research agenda and community. We welcome a wide range of studies that address or utilize spatiotemporal concepts.

Possible topics include, but are not limited to:
What are the important aspects in spatiotemporal study?
What are the most significant breakthroughs in the past 5 years in spatiotemporal research?
What is missing from current research scheme?
What can be achieved in the next 5 years?
What are the spatiotemporal principles in various geographic domains, such as regional science, climatology, public health, cyberinfrastructure, etc.?
What are the approaches to model and represent spatiotemporal principles?
How can spatiotemporal thinking be formulated and used as a methodology and conceptualization process in earth science discovery and applications?
How can spatiotemporal thinking be used in managing and developing cloud computing?
How can spatiotemporal computing be used for addressing Big Data issues?
What is the way to educate the next generation workforce with spatiotemporal knowledge?
How can we best enable the collaboration on spatiotemporal studies?

New Query