



## AAG Annual Meeting

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### Paper Session:

#### 1222 CyberGIS and Digital Epidemiology

is scheduled on Tuesday, 4/8/2014, from 10:00 AM - 11:40 AM in Room 22, TCC, First Floor

#### Sponsorship(s):

Spatial Analysis and Modeling Specialty Group  
Cyberinfrastructure Specialty Group

#### Organizer(s):

[Guofeng Cao](#) - University of Illinois at Urbana-Champaign  
[Zhuojie Huang](#)  
[Shaowen Wang](#) - University of Illinois at Urbana-Champaign

#### Chair(s):

[Guofeng Cao](#) - University of Illinois at Urbana-Champaign

#### Abstract(s):

**10:00 AM Author(s):** \*Guofeng Cao - Texas Tech University  
Shaowen Wang - Department of Geography and Geographic Information Science, University of Illinois at Urbana-Champaign; National Center for Supercomputing Applications  
Myunghwa Hwang - Department of Geography and Geographic Information Science, University of Illinois at Urbana-Champaign  
Anand Padmanabhan - National Center for Supercomputing Applications  
Zhenhua Zhang - Computer Network Information Center, Chinese Academy of Sciences

Abstract Title: *A General Framework for Spatio-temporal Analysis of Location-based Social Media Data*

**10:20 AM Author(s):** \*Zhuojie Huang - Pennsylvania State University  
Marcel Salathé - Pennsylvania State University

Abstract Title: *Location based social network for disease surveillance*

**10:40 AM Author(s):** \*Recinda Sherman - University of Miami  
Daniel Goldberg, PhD - Texas A & M

Abstract Title: *Using geocoder metadata to assess quality of geocoded data and impact on results of spatial studies*

**11:00 AM Author(s):** \*CHIEN-CHOU CHEN - Graduate Institute of Epidemiology and Preventive Medicine, National Taiwan University  
Hsien-Ho Lin - Graduate Institute of Epidemiology and Preventive Medicine, National Taiwan University

Abstract Title: *Care-Seeking Pathways of Active Tuberculosis Patients in Taiwan: a Spatial Analysis*

**11:20 AM Author(s):** \*Tong Sun - State University of New York at Buffalo, Department of Geography  
Ling Bian - State University of New York at Buffalo, Department of Geography

Abstract Title: *Infectious Disease Process in a People-location Two-mode Network*

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**Session Description:** Thanks to the continuing communication revolution - explosion of mobile phones, internet usage and online social media - and advances of location-based services, it is increasingly common that people share their location and everyday activities, including health and epidemiologically relevant behaviors and sentiments (e.g. taking flu shot in hospitals) through online social networking. These novel data sources provide valuable clues of health statuses of the engaged people, the social networks and the surrounding area of vicinity. Extracting meaningful information from this massive, unstructured and noisy data is challenging, but holds unparalleled potential for public health disease surveillance and research. This session focus on sharing the state of the art of methods that tames the 'big' and unstructured Web information, coupled with global and local maps of infectious disease risk and continually updated reports of infectious disease occurrence, in support of spatial analysis, and exploring the novel application in the research and surveillance of public health.

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