



## AAG Annual Meeting

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### Paper Session:

#### 2519 Spatial and Spatio-Temporal Data Mining & Visualization (2): Regionalization and Community Detection

is scheduled on Wednesday, 4/10/2013, from 2:40 PM - 4:20 PM in Santa Barbara C, Westin, Lobby Level

#### 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  
[Seth Spielman](#) - University of Colorado

#### Chair(s):

[David Folch](#) - University of Colorado at Boulder

#### Abstract(s):

**2:40 PM Author(s):** \*Song Gao - Department of Geography, University of California, Santa Barbara, CA 93106  
Xiujun Ma - Key Laboratory of Machine Perception (Minister of Education), Peking University, Beijing, China 100871  
Yu Liu - Institute of Remote Sensing and Geographical Information Systems, Peking University, Beijing, China 100871  
Michael F. Goodchild - Department of Geography, University of California, Santa Barbara, CA 93106

Abstract Title: *Spatial community detection and urban structure analysis from mobile phone data*

**3:00 PM Author(s):** \*David Van Riper - Minnesota Population Center  
Steven Manson, Ph.D. - University of Minnesota

Abstract Title: *Regionalization Strategies for Terra Populus*

**3:20 PM Author(s):** \*David C. Folch - University of Colorado at Boulder  
Seth Spielman - University of Colorado at Boulder

Abstract Title: *Regionalization Approach to Reduce Small Area Margins of Error in the American Community Survey*

**3:40 PM Author(s):** \*Charlie Haifeng Zhang - University of Louisville, KY

Abstract Title: *Creating Geographically Contiguous and Compact School Attendance Zones*

**4:00 PM Author(s):** \*Hai Jin - University of South Carolina  
Diansheng Guo - University of South Carolina

Abstract Title: *A generic approach to regionalization, redistricting, and partitioning*

**Session Description:** Due to the ubiquity of location-aware technologies, surveys, and social media, big data with high spatio-temporal resolution have become increasingly available, such as massive mobility data, spatially embedded social networks, high-resolution remote sensing images, public health data, climate change data, etc. 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 spatio-temporal data to obtain new knowledge. This special session(s) invites research contributions in the theory, methodology, implementation, and application of spatial/spatiotemporal data mining, simulation, and visual analytics for analyzing spatio-temporal data and deriving new knowledge and theory.

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