



AAG Annual Meeting

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Paper Session:

4211 Spatial Optimization and Analysis II

is scheduled on Friday, 4/24/2015, from 10:00 AM - 11:40 AM in Skyway 285, Hyatt, East Tower, Blue Level

Sponsorship(s):

Spatial Analysis and Modeling Specialty Group
Geographic Information Science and Systems Specialty Group

Organizer(s):

[Daoqin Tong](#) - University of Arizona - Geography & Regional Development
[Ran Wei](#) - University of Utah

Chair(s):

[Ran Wei](#) - University of Utah

Abstract(s):

10:00 AM Author(s): *Jake Nelson - Drexel University
Jennifer Bauer - Department of Energy - National Energy Technology Lab
Lisa Madsen - Oregon State University
Malgo Pesynska - Oregon State University
Mina Ossiander - Oregon State University
Juliana Mbuthia - Department of Energy - National Energy Technology Lab

Abstract Title: *Spatially Integrated Multivariate Probability Assessment (SIMPA)*

10:20 AM Author(s): *Subhajit Ghoshal, PhD - Air Products and Chemicals Inc
Peter M Verderame, PhD - Air products and Chemicals Inc
Pratik Misra, PhD - Air products and Chemicals Inc.
Erdem Arslan, PhD - Air products and Chemicals Inc
Nicolas Saint Leon Martin - Air products and Chemicals Inc.

Abstract Title: *Resource Planning and Network Design through Advanced Allocation Analytics*

10:40 AM Author(s): *Beibei Guo - Nanjing University
Xiaobin Jin - Dr. and Prof.
Daoqin Tong - Dr. and Prof.

Abstract Title: *Optimal Spatial Allocation of Water Resources Based on Mixed Integer Programming and Its Decomposition*

11:00 AM Author(s): *Tom Cova - University of Utah
Piotr Jankowski - San Diego State University

Abstract Title: *Mapping spatial uncertainty in object-fields: the case of site suitability analysis*

11:20 AM Author(s): *Qiuping Li - Center of Integrated Geographic Information Analysis(CIGNA) School of Geography and Planning ,Sun Yat-sen University
Zhixiang Fang - State Key Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University
Lee D. Han - Department of Civil & Environmental Engineering, The University of Tennessee

Lin Liu - Center of Integrated Geographic Information Analysis(CIGNA) School of Geography and Planning ,Sun Yat-sen University;Department of Geography, University of Cincinnati, Cincinnati, OH, USA

Abstract Title: *Optimizing Mixed Pedestrian-Vehicle Evacuation by Adaptive Network Reconfiguration*

Session Description: We are organizing sessions on Spatial Optimization and Analysis for the coming AAG Annual Meeting. The meeting will take place in Chicago, Illinois from April 21 to April 25, 2015. Spatial optimization and analysis is essential in a range of problems concerning spatial placement, organization or arrangement of entities, resources, goods and service provision. In these sessions, we welcome studies or applications addressing any relevant issues on spatial optimization and analysis. These studies include but not limited to:

- Location analysis and modeling
 - Network design and analysis
 - Land use planning and resource management
 - Districting/regionalization problems
 - Transportation applications
 - Big data and problem solution techniques
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