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(58) 2013 AAG Annual Meeting, Los Angeles, California

Paper Session:

5160 Capturing Population Dynamics

is scheduled on Saturday, 4/13/2013, from 8:00 AM - 9:40 AM in Olympic, The LA Hotel, Level 2

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

Organizer(s):
Amy Rose - Oak Ridge National Laboratory
Robert Stewart - Oak Ridge National Laboratory

Chair(s):
David Martin - University of Southampton

Abstract(s):

8:00 AM Author(s): *Eddie Bright - Oak Ridge National Laboratory
Jeanette Weaver - Oak Ridge National Laboratory
Jessica Moehl - Oak Ridge National Laboratory

Abstract Title: *Employing Automated Image Segmentation Tools to Discern and Characterize Rapid Population Movements.*

8:20 AM Author(s): *David Martin, PhD - University of Southampton

Abstract Title: *Locational Time-Profiling: Essential Information For Space-Time Population Modelling*

8:40 AM Author(s): *April Morton - Oak Ridge National Laboratory
Robert N Stewart, Ph.D. - Oak Ridge National Laboratory
Marie Urban - Oak Ridge National Laboratory
Eddie Bright - Oak Ridge National Laboratory

Abstract Title: *A Spatiotemporal Process Model for Capturing Museum Visitation Dynamics*

9:00 AM Author(s): *Mark Birkin - University of Leeds
Nick Malleson - University of Leeds

Abstract Title: *Exploring Population Dynamics with Crowd-Sourced Data*

9:20 AM Author(s): *Kristian Hegner Reinau, Ph.D. - Department of Development and Planning, Aalborg University
Henrik Harder, Ph.D. - Department of Architecture, Design and Media Technology, Aalborg University
Noam Shoval, Ph.D. - Department of Geography, Hebrew University of Jerusalem

Abstract Title: *"A Week in The Life" - The Geography of Household Mobility in Copenhagen Revealed using GPS Technology and Pattern Analysis*

Session Description: The mobility of the global population is increasing locally, regionally, and transnationally. At the same time, advances in sensor technologies and the emerging ubiquity of geosocial platforms are making it possible to explore new avenues for capturing population dynamics. With human-centric sensor technologies, devices including camera cell-phones, in-vehicle GPS, and sports activity monitoring systems have all reached mature market penetration, and in turn present unprecedented opportunities for data collection. This information offers a glimpse into individual level dynamics that in turn can provide insight into the large-scale system landscape. This session is an opportunity for researchers to share their work with a focus on novel methods for capturing population dynamics. Papers that discuss approaches that feature sensor technologies; modeling and simulation that aims to capture population activity, mobility, and interaction; statistical approaches designed for multiple scales of time, space, and interaction; as well as methodological critique are welcome.

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