

Call for abstracts for a paper Session:

AAG 2016 Symposium on Human Dynamics Research: Analysis of Movement Data

AAG Meeting 2016: San Francisco, CA – March 29-April 2, 2016

Movement is an integral part of many spatiotemporal processes such as human mobility, animal migrations, and environmental phenomena like hurricanes, oil spills, and wildfires. Advancements in tracking technologies have resulted in significant increases in the availability of data on such phenomena. These movement observations are key to the study and understanding of movement. The study of movement consists of a continuum of research for quantification, modeling, and representation of movement trajectories, movement patterns, and the interactions of moving phenomena with one another and with the environment within which the movement takes place. The aim is to understand movement and the underlying mechanisms driving movement patterns, and ultimately to develop predictive models to explore the dynamics of spatiotemporal processes under varying environmental conditions.

As part of the Symposium on Human Dynamics Research at the 2016 AAG annual meeting, this session aims to serve as a platform to discuss the recent trends in the study of movement and novel methods for analyzing and contextualizing movement data. The session focus is on, but not limited to, topics concerning analysis, modeling, and representation of movement data from different domains such as transportation (e.g., vehicles, pedestrians), movement ecology (e.g. plants, animals), and environmental hazards (e.g. hurricanes, wildfire, oil spills).

We invite submissions that present research on the general theme of movement data analysis, with particular emphasis on novel techniques that address the following examples of topics:

- Analyzing movement patterns in the context of external influences (e.g. environment, geographic context)
- Analyzing interactions between moving entities
- Simulation and agent-based modeling of movement
- Cross-scale movement pattern analysis
- Entity behavior as a driver for patterns of movement

Please submit your abstract through the AAG annual meeting online submission system and then send the title, abstract, and your PIN to Somayeh Dodge (sdodge3@uccs.edu) by October 25, 2015.

Session organizers:

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Session Sponsors:

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