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

Paper Session:

3209 Spatial and Spatio-Temporal Data Mining & Visualization (5): Movement Pattern Analysis

is scheduled on Thursday, 4/11/2013, from 10:00 AM - 11:40 AM in San Fernando, 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
Jennifer Miller - University of Texas at Austin

Chair(s):
Jennifer Miller - University of Texas at Austin

Abstract(s):

10:00 AM Author(s): *Jennifer A Miller - University of Texas at Austin

Abstract Title: *A framework for analyzing dynamic interactions (between animals): a case study using brown hyenas in Botswana*

10:20 AM Author(s): *Patrick Laube - University of Zurich

Abstract Title: *Introducing Computational Movement Analysis*

10:40 AM Author(s): *Somayeh Dodge - The Ohio State University
Gil Bohrer - The Ohio State University
Rolf Weinzierl - Max Planck Institute for Ornithology, Germany
Sarah C Davidson - Max Planck Institute for Ornithology, Germany
Martin Wikelski - Max Planck Institute for Ornithology, Germany
Roland Kays - North Carolina Museum of Natural History

Abstract Title: *Exploring Animal Movement Patterns in Response to Environmental Change*

11:00 AM Author(s): Mike Evans - University of Minnesota
*Francis Harvey - University of Minnesota - Minneapolis

Abstract Title: *Reliable Determination of Commonly Used Transportation Routes: Introducing the k-Primary Corridors Approach*

11:20 AM Author(s): *Hyowon Ban - California State University, Long Beach

Abstract Title: *Motion analyses and visualization of dances*

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.

New Query