Paper Session:

1430 Advances and Challenges in Digital Elevation Models III (Remote Sensing)

is scheduled on Tuesday, 4/8/2014, from 12:40 PM - 2:20 PM in Room 30A, TCC, Fourth Floor

Sponsorship(s):
Coastal and Marine Specialty Group
Geomorphology Specialty Group
Spatial Analysis and Modeling Specialty Group

Organizer(s):
Barry Eakins - University of Colorado
Jeffrey J. Danielson - United States Geological Survey

Chair(s):
John Brock - USGS

Abstract(s):

12:40 PM Author(s): *Bruce V. Millett - South Dakota State University
Janet Gritzner - South Dakota State University

Abstract Title: *Integrating GPS Survey Data into LIDAR LAS Dataset Processing*

1:00 PM Author(s): *Cindy Thatcher - USGS
Jeffrey J. Danielson - USGS Earth Resources Observation and Science (EROS) Center
Dean Gesch - USGS Earth Resources Observation and Science (EROS) Center
Dustin Kimbrow - USGS Alabama Water Science Center

Abstract Title: *The Use of GPS and Terrestrial Lidar Data to Evaluate the Accuracy of Bare Earth Airborne Lidar in Wetland Habitats*

1:20 PM Author(s): *Samriddhi Shakya - Auburn University
Luke Marzen - Auburn University
Chandana Mitra - Auburn University
Sam Fowler - Auburn University

Abstract Title: *Integrating multispectral imagery and LiDAR data to classify isolated wetlands using Geographic Object Based Image Analysis (GeOBIA)*

1:40 PM Author(s): *Tao Tang - State University of New York - Buffalo State
Lixian Dai - Wendel Engineering Consulting Company

Abstract Title: *Comparison of point-based and object-based urban building feature extractions applying airborne LiDAR data*

2:00 PM Author(s): *Vijay Lulla -

Abstract Title: *Levee Identification from LiDAR data*

Session Description: Digital elevation models (DEMs) are a fundamental base layer for many applications, such as hydrologic and storm surge modeling, tsunami and sea-level rise modeling, ecosystems management and habitat research, coastal and marine

spatial planning, sediment-transport analysis, and hazard mitigation and community preparedness. We invite papers/illustrated papers on recent advances in DEMs, including new techniques for building or evaluating DEMs, and in challenges that DEMs pose to applications that require them. How can DEMs be improved to support better planning or research? What are the limitations of DEMs in how they are used? How does DEM uncertainty or inaccuracy impact results derived from their use?

New Query