



AAG Annual Meeting

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Paper Session:

3507 Advances and Challenges in Digital Elevation Models IV (Remote Sensing)

is scheduled on Thursday, 4/11/2013, from 2:40 PM - 4:20 PM in Palos Verdes, Westin, Lobby Level

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):

2:40 PM Introduction: [Jeffrey J. Danielson](#) - United States Geological Survey

2:40 PM Author(s): *Peter George Chirico - United States Geological Survey

Abstract Title: *High resolution digital elevation models of dynamic terrain features using structure-from-motion (SfM) technology*

3:00 PM Author(s): *Wanxiao Sun - Grand Valley State University

Fangdi Sun - Nanjing University, China
 Jin Chen - Beijing Normal University, China
 Peng Gong - Tsinghua University

Abstract Title: *Integration of pixel-based and object-based image classification for extraction of water bodies with Landsat imagery*

3:20 PM Author(s): *Haibin Su - Texas A&M University - Kingsville

Hongxing Liu - University of Cincinnati

Abstract Title: *Derivation of bathymetric information from multispectral satellite imagery using localized inversion model*

3:40 PM Author(s): *Rongxing Li - Ohio State University

Rui Wu - The Ohio State University
 Changlin Xiao - The Ohio State University

Abstract Title: *High-Precision Martian Crater Mapping*

4:00 PM Discussant: [John Brock](#) - USGS

Discussant(s):

[John Brock](#) - USGS

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