The 2015 International Workshop on Image and Data Fusion

21-23 July 2015, Kona, Hawaii, USA

(iwidf2015.casm.ac.cn)

First Announcement and
Call for Papers

With increasing amounts of data collected from satellite, airborne, and ground based imaging systems, image and data fusion techniques are gaining more and more importance. By the integration of multi-sensor, multi-temporal, multi-resolution and multi-platform image data, together with geospatial data, GIS, in-situ, and other statistical data sets, more accurate information can be obtained to provide for robust operational performance. This leads to increased confidence, reduced ambiguity and improved classification to enable evidence based management.

This international workshop will provide a forum for leading international scientists and young researchers to present their latest research developments, exchange their research ideas and share their experience in techniques and applications of image and data fusion. There will be several technical sessions and lots of opportunities to meet fellow researches coming from the world to create and enhance collaborations. You are cordially invited to contribute to this event by attending the workshop and delivering a paper.

Venue
Waikoloa Marriott Hotel, Hawaii, USA

Date

20-23 July, 2015

Topics

Topics of interest include, but are not limited to:

- Automatic registration or other geometric aspects of fusion with images from different spatial, spectral, and temporal resolutions, or acquisition modes
- Pixel-, feature- and decision-level fusion algorithms and methodologies
- Multi-source classification and information extraction
- Integration of images and products from satellite, airborne, and terrestrial sensor systems, as well as in-situ measurements
- Change detection and dynamic analysis based on remote sensing images
- Image and data mining from multi-platform, multi-source, multi-scale, multi-temporal data sets (e.g. geometric information, topological information, statistical information, etc.)
- Data fusion applications in the fields of mapping and monitoring natural resources, natural hazards, and environmental security
- High performance computing techniques in remote sensing data fusion
- Others

Special Sessions

Characterization of volcanic hazards through image and data fusion: This special session invites innovative image and data fusion methods and applications on characterizing various aspects of volcanic hazards, including ground surface deformation and topographic change mapping, lava and pyroclastic flow mapping, thermal anomaly mapping, and volcanic gas and ash mapping, etc.

Important Dates

- **Deadline for submission of full paper:** 10 May 2015
- **Notification of acceptance:** 20 May 2015
- **Deadline for early bird registration:** 25 May 2015
- **Final Program available:** 30 June 2015

Submission and Publication of Papers

Authors are invited to submit electronically original research contributions or experience reports not concurrently submitted elsewhere. Papers should be clear, concise and written in English with correct spelling and good sentence structure. Please prepare and format your paper according to ***ISPRS author's guideline (orange book)***.

The full paper will be reviewed by two to three reviewers for quality, correctness, originality and relevance. Notification and review results will be communicated via Email. Please submit your full paper via the conference website.

All accepted papers will be published electronically in the ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science. The Archives are listed in the ISI Conference Proceedings Citation Index (CPCI) of the Web of Science and in SCOPUS.

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ISPRS WG VII/6 - Remote Sensing Data Fusion
Southern Methodist University, USA
University of Hawaii at Hilo - Conference Center, USA

Co-organizers

Chinese Academy of Surveying and Mapping

Texas A&M University-Corpus Christi

United Nations Project Management Office of National Administration of Surveying, Mapping and Geoinformation of China

National Center for International Research on Surveying, Mapping and Geoinformation

International Journal of Image and Data Fusion

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Programme at a Glance

	Monday/ 20 July	Tuesday / 21 July	Wednesday / 22 July	Thursday / 23 July
A.M.	Registration; IJIDF Editorial Board meeting; Tutorial	Opening Ceremony; Plenary Session; Registration	Technical Session; Registration	Field trip (Hawaii volcanic fields)
Lunch				
P.M.		Technical Session; Registration	Technical Session; Registration	
Eve.		Welcome Dinner		

Registration Fees

	Before and on 25 May 2015	After 25 May 2015
Attendee	625 USD	725 USD
Full Time Student	400 USD	450 USD

Students must show a proof of their full-time status.

The registration fee includes CD proceedings, access to all scientific sessions, AM/PM coffee breaks, box lunch (Tuesday & Wednesday) and welcome dinner.

There must be one registered person for each paper.

Workshop Website

Big Island, Hawaii

Hawaii's Big Island, is a chain of volcanic islands in the North Pacific Ocean. The largest island in the United States, the Big Island is built from five separate shield volcanoes that erupted somewhat sequentially, one overlapping the other: extinct Kohala, dormant Mauna Kea, active Hualālai, Mauna Loa and Kīlauea.

Its two most active volcanoes - Mauna Loa and Kilauea - erupt lava frequently enough to pose a serious hazard to property on many parts of the island, but fortunately, the eruptions have not posed a threat to human life.

About 40 percent of Mauna Loa has been covered by lava in the past 1,000 years and over 90 percent of Kilauea's surface is covered by lava less than 1,100 years old. As land development expands toward areas of relatively high hazard, the threat to life and property on Hawaii will increase accordingly.

Heavy rainfall and fertile volcanic soil have given rise to Hawaii's lush tropical forests, providing a wide variety of vegetation types. The Big Island offers a first-class natural laboratory to apply the state-of-art image and data fusion technologies to study volcanic hazards and map tropical forests and their changes due to volcanic hazards.

Contact

For more information about the workshop, you may also contact us at the following address:

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