

ISPRS Istanbul Workshop 2010, WG I/4

Modeling of optical airborne and space borne sensors

Istanbul, Turkey, October 11 – 13, 2010

Preliminary program

Monday, October 11, 2010

10:00 – 12:00 Introduction, presentation of BIMTAS

12:00 – 13:30 *Lunch*

13:30 – 15:00 Digital Elevation Models

Thomas Krauß, Peter Reinartz; DLR Germany: Urban object detection using a fusion approach of dense urban digital surface models and VHR optical satellite stereo data

Umut G. Sefercik, Karsten Jacobsen; University Zonguldak, Turkey: Quality assessment of high resolution radar DSMs

A.Özgün Ok, J. Wegner, C. Heipke, F. Rottensteiner, U. Sörgel, V. Toprak, METU Ankara, Turkey: A stereo line matching technique for aerial images based on a pair-wise relation approach

15:30 – 17:00 Digital aerial cameras

Karsten Jacobsen, University Hannover, Germany: Development of digital aerial cameras

Özgür Yılmaz, O. Selimoglu, B. Akcarca, Tubitak, Ankara, Turkey: Design steps to temperature and pressure intensive optical systems for digital aerial imaging

Khaldoun Qtaishat, Mutah University, Karak, Jordan: Assessing the performance of differential large format digital cameras by investigating the geometric accuracy and camera calibration

Alireza Shirkhani, M. Saadatseresht, A. Fadavi, Farazamin Consulting Engineers, Tehran, Iran: Evaluating the parameters with effects on the accuracy of aerial triangulation of Ultracam-D digital images

18:00 social event with dinner

Tuesday, October 12, 2010

9:00 – 10:30 Digital aerial cameras

Peter Reinartz, F. Kurz, D. Rosenbaum, J. Leitloff, G. Palubinskas, DLR Germany: Image time series for near real time airborne monitoring of disaster situations and traffic applications

Gellért Mátyus, C. Benedek, T. Szirányi, DEVA Hungarian Academy of Science, Budapest, Hungary: Multi target tracking on aerial videos

Özgür Selimoglu, O. Yılmaz, O. Sengül, B. Arca, TUBITAK Ankara, Turkey: Mechanical FMC techniques for removing image blur in digital aerial cameras

11:00 – 12:30 Laser

Y. Fallah Vazirabad, M.O. Karslioglu, METU Ankara, Turkey: Airborne laser scanning for tree characteristics detection

Volker Boeder, **Thomas Kersten**, C. Hesse, T. Thies, A. Sauer, HafenCity University Hamburg, Germany: Initial experiments with the integration of a terrestrial laser scanner into the mobile hydrographic multi sensor system on a ship

M. Ali Demir, E. Sertel, N. Musaoglu, C. Örmeci, Istanbul Technical University, Turkey: Accuracy assessment of radargrammetric DEM derived from Radarsat-2 ultrafine mode

12:30 – 14:00 *Lunch*

14:00 – 16:00 presentation of BIMTAS projects

Wednesday, October 13, 2010

9:00 – 10:30 Object extraction

Beril Sirmacek, P.d'Angelo, P. Reinartz, DLR Germany: Detecting complex building shapes in panchromatic satellite images for digital elevation model enhancement

Andrea Kovacs, T. Sziranyi, Pazmany Peter Catholic University, Budapest, Hungary: Shape detection of structural changes in long time-span aerial image samples by new saliency methods

Hossein Arefi, M. Hahn, P. Reinartz, DLR, Germany: Ridge based decomposition of complex buildings for 3D model generation from high resolution digital surface models

M.A. Salehi Amin, M. Mokhatarzade, M.J.V. Zoj, Toosi University, Tehran, Iran: Automatic road network detection from high-resolution satellite images using angular texture information in fuzzy decision systems; Automatic road network detection from high-resolution satellite images using neural networks and angular texture information

11:00 – 12:30 Optical + Radar

Yoldas Ataseven, A.A. Alatan, METU Ankara, Turkey: Fast stereo pair generation using SRTM registration and optical flow

Sevgi Zübeyde Gürbüz, S. Gürol, H. Özen, U.M. Leloglu, E. Tunali, TUBITAK, Ankara, Turkey: Characterization of the spatial uniformity of the Tuz Gölü calibration test site

Mehmet Alkan, M. Oruc, D. Kayabasi, University Zonguldak, Turkey: Spatial and temporal GIS analysis of change detection using IKONOS images: case study of Zonguldak

The presenter of the individual paper is highlighted; the affiliations are abbreviated