Photogrammetry, Remote Sensing and GIS Solutions at ISPRS 2012

Intergraph, USA, is to showcase innovations and offer technical presentations at the XXII Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS 2012) on 25 August to 1 September 2012 in Melbourne, Australia. As the Platinum Sponsor of the event (along with Leica Geosystems), Intergraph will demonstrate its photogrammetry, remote sensing and GIS products, as well as the recently released GeoMedia Smart Client.

Intergraph has helped customers around the world use geospatial software to solve global challenges, from dam monitoring in China to sustainable farming in Australia.

Specialists are presenting in technical sessions that will showcase Intergraph's photogrammetry and remote sensing solutions.

- Identifying Building Change Using High-Resolution Point Clouds: An Object-Based Approach; Wednesday 29 August 2012, 2.00PM, Room 211. Discover how object-based change detection techniques to high-resolution point clouds can be applied, enabling to view change over time in above-ground features such as buildings and trees.
- A Multi-Sensor Approach to Semi-Global Matching; Wednesday 29 August 2012, at 2.00PM, Room 219. Learn the Semi-Global Matching (SGM) technique for Leica ADS line-scanner data, which has created a growing community that applies this surface extraction to aerial frame imagery. You can achieve this by combining high-resolution geometry and multi-spectral information, ultimately resulting in point clouds.
- Object-Oriented Change Detection with Discriminant Function; Thursday 30 August 2012, at 2.00PM, Room 211. See an object-oriented approach to change detection, based on a novel discriminant-function algorithm. This approach facilitates to easily differentiate whether change was caused by the addition or removal of objects, and minimise the detection of inconsequential changes caused by shadows, vertical layover and simple color differences.
- Empirical Distribution Analysis-based Object Cue Metric; Friday 31August 2012 at 11.00AM, Room 211. Until now, summary measurements such as mean and standard deviation of the pixel values within each object are used to depict the spectral characteristics of the object. Learn about the development and use of a novel object cue based on performing empirical distribution analysis (EDA) for each object.

Intergraph will also provide live product demonstrations in Booth 38.

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