

Satellite Imagery Based Information Integration System Solution to On-Site Inspection Training Courses and Exercises

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With the development of commercial space technology, remote sensing for instance has been widely used in daily life. The availability of remote sensing images as commercially off the shelf products makes it possible for on-site inspection (OSI) application, especially for training courses and exercises. This work would carry out a commercial satellite imagery based information integration system solution to OSI. It would provide for OSI training courses and exercises customized product solution. According to the requirement of OSI inspection area, open source commercial satellite images would be acquired and processed consequently. Based on the image and DEM data, an integrated information system would be setup to provide high resolution real circumstances and three-dimensional modeling simulation of the inspection area. Based on the integrated information system, most of the IT functionalities such as mission planning and decision making, route optimization, data fusion and visualization, managed access arrangement, over-flight planning, BoO and H&S arrangement, and etc.can be supported. With communication equipment assistance, services of the integrated information system can be shared by individual inspectors in the field in real time. The working team is looking forward to providing a test trial at the future IFE2025.

Promotional text

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E-mail

lipeng1406@163.com

Oral preference format

Primary author: Mr WANG, Yuwei (China Siwei Surveying and Mapping Technology Co. Ltd.)

Co-authors: Mr LI, Peng (China Arms Control and Disarmament Association); Mr GUO, Zhaoyu (China Siwei Surveying and Mapping Technology Co. Ltd.); Mr SU, Wenbo (China Siwei Surveying and Mapping Technology Co. Ltd.); Mrs LIU, Meijuan (HOPE Investment Development Co. Ltd.); Ms CAO, Yixuan (HOPE Investment Development Co. Ltd.); Mr SHENG, Lei (Institute of Space Integrated Ground Network); Mrs YANG, Jing (HOPE Investment Development Co. Ltd.)

Presenter: Mr WANG, Yuwei (China Siwei Surveying and Mapping Technology Co. Ltd.)

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