



Commission on Mapping from Remote Sensor Imagery

Chair: Xiaojun Yang (USA) Vice-Chairs: Jonathan Li (Canada), Jan Feranec (Slovakia) & Yifang Ban (Sweden)

Website: <http://myweb.fsu.edu/xyang/ica>

Background and Terms of Reference

The ICA Commission on Mapping from Remote Sensor Imagery was created in 1999 as one of the 17 commissions approved by the 11th ICA General Assembly. In 2005, the 13th General Assembly changed the Commission name from “Cartography from Satellite Imagery” into “Mapping from Satellite Imagery”. In 2007, the 14th General Assembly approved the Commission as one of the 22 commissions. In 2011, the 15th General Assembly approved the Commission as one of the 28 commissions or working groups, and changed the Commission name into “Mapping from Remote Sensor Imagery”.

The Commission’s terms of reference for 2011- 2015 include:

- ❖ Promote the original and practical research concerning the development and use of existing and forthcoming aerospace remote sensor systems for topographic and thematic mapping.
- ❖ Produce a book with a state-of-the-art review on remote sensors and data processing techniques applied for topographic and thematic mapping. It reviews the latest developments in remote sensors and information extraction techniques, examines the utilities of sensors and techniques for cartographic feature extraction, and showcases latest developments in thematic mapping.
- ❖ Network with ISRPS, IAG, FIG, and other ICA commissions with similar interests in applications of remote sensor imagery. Such networking would help organize one or more joint workshops, seminars, or symposia during 2011–2015.
- ❖ Develop closer links with international organizations concerned with the use of remote sensor imagery for strengthening ICA’s presence and developing joint courses or seminars on cartographic applications of remote sensor imagery.
- ❖ Promote knowledge transfer at fundamental and advanced levels on the use of remote sensor imagery for cartographic applications related to natural and built environments, early warning and natural disaster mitigation.
- ❖ Prepare promotional materials reflecting the Commission’s terms of reference and activities that can be used to support ICA’s presence at international forums.

Commission-Sponsored Conference Activities

- ❖ **The Fifth International Conference on Earth Observation for Global Changes (EOGC 2015), Al-Ain, United Arab Emirates, 8-10 December 2015**

EOGC 2015 will be hosted by the United Arab Emirates University (UAEU), with a sponsorship from the ICA Commission on Mapping from Remote Sensor Imagery. Jonathan Li (Commission Vice-Chair) serves as a Conference Chair and Scientific Committee Chair. Multiple Commission members serve on the Scientific Committee. Conference website: <http://conferences.uaeu.ac.ae/eogc-git4ndm/en/committee.shtml>

- ❖ **The Second International Workshop on Temporal Analysis of Satellite Images, Stockholm, Sweden, 17-19 June 2015**

This highly successful workshop was hosted by Royal Institute of Technology in Stockholm, Sweden, with a sponsorship from the ICA Commission on Mapping from Remote Sensor Imagery. Yifang Ban (Commission Vice-Chair) led the Local Organization Committee and the workshop Scientific Committee. Xiaojun Yang (Commission Chair) and Jonathan Li (Commission Vice-Chair) also served on the workshop Scientific Committee.

- ❖ **The Third International Conference on Earth Observation for Global Changes (EOGC 2013), Toronto, Canada, 5-7 June 2013**

EOGC2013 was successfully held, with a sponsorship from the ICA Commission on Mapping from Remote Sensor Imagery. Jonathan Li (Commission Vice-Chair) and Xiaojun Yang (Commission Chair) led the conference Scientific Committee. Multiple commission members served on the Scientific Committee.

Publications

- ❖ **Book: Monitoring and Modeling of Global Changes: A Geomatics Perspective (Editors: Jonathan Li and Xiaojun Yang, to be published by Springer in August 2015)**

With contributors mainly from North America, Europe, and Asia, this edited volume provides a summary of key study cases where satellite data offers critical information to understand the usefulness of the geomatics technologies and global environmental issue.

- ❖ **Book: Advances in Mapping from Aerospace Imagery: Techniques and Applications (Editors: Yang, X. and Li, J.; published by CRC Press in 2013)**

With contributors mainly from North America and Europe, this edited volume provides a state-of-the-art review on remote sensors and data processing techniques applied for topographic and thematic mapping.

