Preface

Automated extraction of topographic objects from remotely sensed data is an important topic of research in Photogrammetry, Remote Sensing, GIS, and Computer Vision. This joint workshop on "Object Extraction for 3D City Models, Road Databases and Traffic Monitoring - Concepts, Algorithms and Evaluation (CMRT15)", organized by the ISPRS working groups III/4 and III/VII, discussed recent developments, the potential of various data sources, and future trends both with respect to sensors and processing techniques in automatic object extraction. The focus of the conference lay on methodological research. It was held in La Grand Motte, France, in conjunction with the newly established ISPRS Geospatial Week 2015 that accompanies eight other ISPRS and non ISPRS workshops. CMRT15 follows the successful events under the same title held in Vienna, Austria (CMRT05), Paris, France (CMRT09) and Antalya, Turkey (CMRT13).

The conference addressed researchers and practitioners from universities, research institutes, industry, government organizations, and private companies. The range of topics covered by the conference is reflected by the terms of reference of the cooperating ISPRS working groups:

· WG III/4 – 3D Scene Analysis
· ICWG III/VII – Pattern Analysis and Remote Sensing

Prospective authors were invited to submit full papers of a maximum length of 8 pages. In addition, authors of application-oriented work could submit extended abstracts.

We received 14 full papers for review. The submitted full papers were subject to a rigorous double blind peer review process. Based on the reviews, 9 papers by authors coming from six countries were accepted. This corresponds to an acceptance rate of 64%. Each full paper was reviewed by three members of the scientific committee. The accepted papers were published as volume II-3/W5 of the ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Science.

In addition, we received five extended abstracts for review. The abstracts were also reviewed by three members of the scientific committee, and the authors of four out of five abstracts were invited to submit a full paper to the workshop. These four papers along with the five papers that did not pass the full paper peer review were found to be acceptable for a publication in Volume XL-3/W3 of the International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science.

All accepted full papers and three selected papers that were accepted for the Archives were presented orally in a single track workshop consisting of four oral sessions. The remaining papers were presented during a joint poster session with the ISPRS ISA, GeoVIS and GeoBigData workshops. In addition, the programme of CMRT15 featured keynotes by Prof. Devis Tuia from the University of Zurich, Switzerland (in a shared session with the ISA and Gi4DM workshops), Dr. Ed Parsons from Google, UK, and Prof. Thomas Kolbe from TU München, Germany (both in a shared session with the ISA and Gi4DM workshops).

Finally, the editors wish to thank all contributing authors, the members of the Program Committee, and Ludwig Hoegner for maintaining the workshop web site. In addition, we like to express our thanks to the ISPRS Geospatial Week without whom this event could not have taken place.

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