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PCV 2010

Photogrammetric Computer Vision and Image Analysis

Saint-Mandé, France

1 – 3 September 2010

1910 2010

a century of information from imagery

Papers accepted on the basis of abstracts

Editors
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Preface

Photogrammetric Computer Vision and Image Analysis (PCV 2010) was an ISPRS single-track conference where photogrammetrists met computer vision scientists around geomapping applications using remotely sensed geoimagery. This imagery consisted mostly of time color images, multispectral images and/or lidar point clouds acquired by spaceborne, airborne, or ground-based platforms or devices.

This event was organised by ISPRS Commission III (http://www.commission3.isprs.org) and was held in Saint Mandé, France, from 1-3 September 2010. It discussed recent developments and trends on sensor pose estimation, surface reconstruction, point cloud processing, automatic object extraction, and complex scene analysis. The conference was focused on methodological research.

The conference addressed researchers and practitioners from universities, research institutes, industry, national mapping agencies, government organizations, and private companies. The range of topics covered by the conference was reflected by the terms of reference of all the ISPRS Commission III working groups:

- Sensor pose estimation and surface reconstruction from images and/or range data (WG III/1)
- Point cloud processing (WG III/2)
- Image analysis for indexation and image retrieval (WG III/3)
- Complex scene analysis and 3D reconstruction (WG III/4)
- Image sequence analysis (WG III/5)
- Pattern recognition for remote sensing (ICWG III/VII)

Prospective authors were invited to submit full papers of a maximum length of 6 pages. We received 76 full papers for peer review. The submitted full papers were subject to a rigorous double blind peer review process. 66% of these papers were reviewed by 3 members of the reviewing committee. 24% were reviewed by 2 and 10% were reviewed by 4.

Altogether 51 papers were accepted based on the full reviews. This corresponds to a rejection rate of 34%. The accepted papers were published as printed proceedings in the IAPRS series vol. XXXVIII part 3A as well as on CD-ROM. Only a selection of 28 papers could be presented orally due to the single track design of PCV 2010 and also due to the generous time slots reserved for discussion.

44 papers were also received for an abstract-based review process. 28 of them were selected for publication in the IAPRS series vol. XXXVIII part 3B and were presented in poster sessions. In all, the part B proceeding contains 41 full papers.

In total, papers coming from 26 countries have been published in the IAPRS proceedings of this event (Australia, Austria, Brazil, Canada, China, Egypt, France, Germany, Greece, Hungary, India, Iran, Israel, Italy, Japan, Lebanon, Norway, Poland, Russia, Spain, Switzerland, Taiwan, the Netherlands, Turkey, the United Kingdom). These papers were presented in 8 oral sessions and in 2 poster sessions.

Finally, the editors wish to thank all contributing authors and all the reviewers for the quality of the papers and of the reviews. In addition, we would like to express our gratitude to the Institut Géographique National and to the Société Française de Photogrammétrie et Télédection for organising this event. Clément Mallet did a great job with the management of the conference tool and the paper edition of the proceedings. Olivier Tournaire also did a great job with the CD-ROM edition of the proceedings. We would also like to thank Isabelle Grujard for the secretariat work and François Boyero for all the logistics, and of course all members of the MATIS laboratory of IGN, for participating in the day to day organisation of the event.

Nicolas Paparoditis and Marc Pierrot-Deseilligny, chairs of PCV 2010.

Paris, July 2010

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