

PIA19+MRSS19 - PHOTOGRAMMETRIC IMAGE ANALYSIS 2019 & MUNICH REMOTE SENSING SYMPOSIUM 2019 PREFACE

U. Stilla

Photogrammetry and Remote Sensing, Technical University of Munich (TUM), Munich, Germany – stilla@tum.de

ICWG II/III - Pattern Analysis in Remote Sensing

Automated extraction of objects from remotely sensed data is an important topic of research in Computer Vision, Photogrammetry, Remote Sensing, and Geoinformation Science. In order to discuss recent developments and future trends in research in automatic object extraction and their influence on sensors and processing techniques, the well-known ISPRS workshop "Photogrammetric Image Analysis" (PIA) and the "Munich Remote Sensing Symposium" (MRSS) are held as a common event for the first time.

While in the past PIA specialised on the automatic exploitation of the image content, MRSS focuses on the geometric processing of aerial and in particular of space imagery. Realising that both areas - geometry and semantics - can significantly support each other when considered together in exploitation of images and point clouds, the two events, organised under a common roof, are held at Technische Universität München (TUM) in September 2019. At the same time, they keep their identity, as the meeting is organised as two parallel workshops with common plenary sessions and common proceedings.

The aim of the common event is to seek, exploit and deepen the synergies between geometry and semantics, and to give the two scientific communities the possibility to discuss with and to learn from each other. Oral sessions with time slots of 25 min give space of 5 min for discussion of each presentation. Particular attention is also given to the poster sessions, which are supported by short oral presentations of the presenter before. The joint event addresses experts from research, government, and private industry. It consists of high quality papers, and provides an international forum for discussion of leading research and technological developments as well as applications in the field. It is worth mentioning that the ISPRS Foundation, Inc. (TIF) supports the event by providing six travel grants to qualified individuals especially from developing countries and regions.

Prospective authors were invited to submit either full papers or abstracts. In total, we received **114** contributions from **28** countries.

Full papers (max. eight pages) underwent a rigorous double blind peer review process. We received **48** full papers for review. Most papers were reviewed by three members of the program committee, 16 papers were reviewed by four members of the program committee. In total we received **157** full paper reviews from **35** reviewers. The maximum number of full papers per reviewer was eight. Altogether **31** papers were accepted based on the reviews for publication in the "ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences" which correspond to an acceptance rate of **65%**. The fact that the full papers were peer reviewed is mentioned on each paper.

Papers not passing the full paper peer review process were considered in the following abstract review process. In total **83** contributions were reviewed for publication in "The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences". Finally **42** final papers (**51%**) were considered for publication.

The editors wish to thank all contributing authors and the members of the Program Committee, namely:

- Richard **Bamler**, German Aerospace Center (DLR) / TUM, Germany
- Georg **Bareth**, University of Cologne, Germany
- Jan **Boehm**, University College London (UCL), UK
- Clive **Fraser**, University of Melbourne, Australia
- Friedrich **Fraundorfer**, Graz University of Technology, Austria

- Paolo **Gamba**, University of Pavia, Italy
- Markus **Gerke**, Technical University of Braunschweig, Germany
- Pierre **Grussenmeyer**, INSA Strassbourg, France
- Norbert **Haala**, University of Stuttgart, Germany
- Ronny **Hänsch**, Technical University of Berlin (TUB), Germany
- Olaf **Hellwich**, Technical University of Berlin (TUB), Germany
- Stefan **Hinz**, Karlsruhe Institute of Technology (KIT), Germany
- Ludwig **Hoegner**, Technical University of Munich (TUM), Germany
- Dorota **Iwaszczuk**, Technical University of Darmstadt, Germany
- Boris **Jutzi**, Karlsruhe Institute of Technology (KIT), Germany
- Marco **Körner**, Technical University of Munich (TUM), Germany
- Peter **Krzystek**, University of Applied Science, Munich (HM), Germany
- Clement **Mallet**, IGN-MATIS Paris, France
- Helmut **Mayer**, Bundeswehr University Munich (UniBwM), Germany
- Jochen **Meidow**, Fraunhofer IOSB, Ettlingen, Germany
- Eckart **Michaelsen**, Fraunhofer IOSB, Ettlingen, Germany
- Roland **Pail**, Technical University of Munich (TUM), Germany
- Nicolas **Paparoditis**, IGN-MATIS Paris, France
- Norbert **Pfeifer**, Technical University of Vienna, Austria
- Peter **Reinartz**, German Aerospace Center (DLR), Germany
- Fabio **Remondino**, Bruno Kessler Foundation (FBK), Italy
- Ribana **Roscher**, University of Bonn, Germany
- Franz **Rottensteiner**, Leibniz University of Hannover (LUH), Germany
- Michael **Schmitt**, Technical University of Munich (TUM), Germany
- Jie **Shan**, Purdue University, USA
- Wenzhong **Shi**, The Hong Kong Polytechnic University, PR China
- Uwe **Soergel**, University of Stuttgart, Germany
- Cyrill **Stachniss**, University of Bonn, Germany
- Charles **Toth**, The Ohio State University (OSU), United States
- Davis **Tuia**, Wageningen University & Research (WUR), The Netherlands
- Jan Dirk **Wegner**, ETH Zuerich, Switzerland
- Martin **Weinmann**, Karlsruhe Institute of Technology (KIT), Germany
- Yusheng **Xu**, Technical University of Munich (TUM), Germany
- Bisheng **Yang**, LIESMARS, Wuhan University (WHU), PR China
- Wei **Yao**, The Hong Kong Polytechnic University, PR China
- Liqiang **Zhang**, Beijing Normal University, PR China
- Xiaoxiang **Zhu**, German Aerospace Center (DLR) / TUM, Germany

Special thanks go to Stefan Hinz for monitoring the review process of submissions co-authored by the editors.

In addition, I like to express my thanks to the Local Organising Committee, without whom this event could not have taken place. Ludwig Hoegner did a great job with the management of the conference tool. The final word processing of all incoming manuscripts and the preparation of the proceedings by Yusheng Xu are gratefully acknowledged. Christian Albrecht and Rong Huang also did a great job organizing the social event. We would also like to thank Christine Elmauer, Jingwei Zhu, Joachim Gehring, Björn Borgmann, and Lealem Tessema for their support to make PIA19+MRSS19 a successful event.

Uwe Stilla

Conference Chair of PIA19+MRSS19