

Preface

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Laser scanning 2019 is the 11th of a series of ISPRS workshops covering various aspects of space borne, airborne, mobile and terrestrial laser scanning in both indoor and outdoor environments. The workshop brings together experts who focus on processing and using point cloud data acquired from laser scanners and other active 3D imaging systems, such as range cameras and gaming sensors. Topics include all aspects related to sensor calibration, data acquisition and data processing including notably registration, feature extraction, object detection, big data processing, 3D modelling, building information modelling and change analysis. The workshop is part of the ISPRS Geospatial Week 2019 and is hosted by the University of Twente (Enschede, The Netherlands) in parallel with a number of related geospatial workshops. Laser Scanning is a central topic in the ISPRS community as evidenced by four working groups of ISPRS jointly organizing this workshop. These working groups are WG II/3, Point Cloud Processing; WG II/4, 3D Scene Reconstruction and Analysis; WG III/6, Remote Sensing Data Fusion and WG II/10, 3D Mapping for Environmental and Infrastructure Monitoring.

The workshop has received a total of 75 submissions. Of those 28 were for the ISPRS Annals and 47 for the ISPRS Archives. The scientific committee dedicated themselves to reviewing all submissions, with three reviewers assigned to every submission. This resulted in more than 200 reviews overall from which decisions were taken. The organizing committee accepted 19 submissions for the ISPRS Annals and 39 submissions were accepted for the ISPRS Archives. The oral track of the workshop is organized into six topics with an additional two oral session shared with other workshops and two poster sessions. The six topics for the oral sessions are Machine & Deep Learning, Change Detection, Registration, Environmental Mapping, Segmentation & Detection and Intensity & Full Waveform. The two shared session are on Single Photon LiDAR and Big Data.

We wish to thank all authors for their contributions and all members of the scientific committee for their excellent job in reviewing the manuscripts.

Organizing Committee, Laser Scanning 2019:

Jan Boehm, Martin Rutzinger, Bisheng Yang, Martin Weinmann, Belén Riveiro, Wei Yao

Scientific Committee:

Andreas Mayr (University of Innsbruck, Austria)

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Fabio Menna (Bruno Kessler Foundation, Italy)

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Kourosh Khoshelham (University of Melbourne, Australia)

Luigi Barazzetti (Politechnic University of Milan, Italy)

Marcus Hebel (Fraunhofer IOSB, Germany)

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Markus Gerke (TU Braunschweig, Germany)

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