

Report on ISPRS International workshop «Photogrammetric techniques for video surveillance, biometrics and biomedicine - PSBB17»

15-17 May, Moscow, Russia

2017

The ISPRS International workshop «Photogrammetric techniques for video surveillance, biometrics and biomedicine - PSBB17» was held in Moscow, Russia from May 15th to May 17th 2015. It was the second in row ISPRS WG II/5 and WG II/10 International workshop in Moscow after PSBB15. The workshop was aimed for providing a platform for sharing the results of research and development efforts in both national and international video surveillance, biometrics, and biomedicine theory, research, experiments, applications, and technology. This time Lomonosov Moscow State University was a co-organizer and provided a venue of the workshop.

The Program Committee included 23 scientists who are experts in areas of video surveillance, biometrics, and biomedicine. They reviewed 78 abstracts submitted to the workshop. Most part of abstracts was evaluated by three reviewers. Topic chairs then gave recommendations of accepting a paper for the ISPRS Archives, or rejected it in case of serious problems. As a result of reviewing process 50 submissions were accepted for presenting at the Workshop, and 41 full papers were accepted for including in the ISPRS Archives.

In order to disseminate the information about the Workshop a website was designed and hosted (<http://technicalvision.ru/ISPRS/PSBB17/>). The website contained information on technical program, themes of the symposium, paper submission, venue details and other general information. In order to enable the delegates to register them for participating in the Workshop the PSBB17 registration and submission website was created (<http://psbb.ellectu.net>). Via PSBB17 registration and submission website entire process of online paper submission, anonymous review, and communication with authors/contributors was organized.

According to the agreement with ISPRS council, the Workshop paper publishing was done by Copernicus Gmbh. At the end of paper handling process, Copernicus Gmbh provided the Workshop proceedings that contained finally accepted for ISPRS Archives full papers. This was provided to all the delegates as part of their registration kit. Copernicus Gmbh also uploaded this in ISPRS website (<http://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLII-2-W4/index.html>).

The Workshop was officially opened by Academician of RAS Eugeny Moiseev, the Dean of the faculty of Computational Mathematics and Cybernetics of Lomonosov MSU, who stressed the importance of this event for developing modern photogrammetric approaches and methods in Russia. Then President of ISPRS TC II «Photogrammetry» Fabio Remondino gave a welcome speech in which he wished the success to the conference and expressed a belief for expanding the scientific cooperation in the field of photogrammetry.



The conference topics and the theme on «Photogrammetric techniques for video surveillance, biometrics and biomedicine» were set to provide the possibility for exchanging approaches, techniques, system descriptions and obtained results. The Workshop Technical program included 6 technical sessions, 2 poster sessions and demonstration of GosNIIAS vision robotics and biometric technologies. Two keynote presentations, 28 oral presentations and 20 posters were presented during the conference.

First workshop day the keynote speech was given by Dr. Alper Yilmaz, Associate Professor, The Ohio State University Photogrammetric Computer Vision Lab, USA. His keynote talk was «Deep learning techniques for object tracking in image sequences»



The technical sessions were organized based on the topics in the program, which covers the following topics:

Image sequence analysis, shape analysis, machine learning

Medical image measurements and analysis

Human body measurements and shape analysis

Medical imaging and visualization, applications

Biometry, biomedicine

Biometrical and medical systems and applications

The welcome party was at the boat going along Moscow river. The participants had the



opportunity to admire the views of Moscow from the board of the boat and to have an ice-breaking party.

The second key note talk was given by Dr. Ajay Kumar, Associate Professor, Department of Computing, The Hong Kong Polytechnic University, Hong Kong He gave his keynote talk «Contactless Fingerprint Identification: Recent Advances and Challenges» on the third day of the workshop.



162 participants registered for the Workshop and took part in the sessions and the discussion during three days of the conference work. The participants represented 11 countries.

Academician RAS, Head of GosNIIAS Sergey Zheltov closed the workshop. He gave a high grade to the workshop content and organization and expressed the certainty that the workshop was useful for all participants and it will have continuation in future.

The conference was very lucky to have a large group of volunteers who contributed greatly to the smooth execution of the pre-conference preparation, conference registration, logistics, and conference programs. Without their dedicate assistance, the conference would not have been done successfully.

The conference appreciated very much the support of State research institute of Aviation Systems and Lomonosov Moscow State University. Specially, we were grateful to the substantial financial support provided by Russian Foundation for Basic Research.

In summary, the conference has received very positive feedback from the participants about the contents presented, conference organization and technical program offered. On behalf of Organizing Committee we would like to thank all who contributed to the success of this joint conference.

