

**W32 – 4th International Workshop on  
Observing and Understanding Hands in  
Action**

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The Fourth International Workshop on Observing and Understanding Hands in Action (HANDS 2018) was held in conjunction with the European Conference on Computer Vision 2018 (ECCV'18) on the 9th of September 2018 in Munich, Germany. It was held in the main building of the Technical University of Munich (TUM) in Arcisstraße 21, and specifically in the lecture hall Theresianum 606. The program of the workshop included five invited talks, six full papers, three extended abstracts, six invited posters, and a short award ceremony.

There were five invited talks in the workshop. The speakers were: Christian Theobalt (Max Planck Institute for Informatics), Tamim Asfour (Karlsruhe Institute of Technology), Andrew Fitzgibbon (Microsoft), Robert Wang (Facebook Reality Labs), and Andrea Tagliasacchi (Google).

The regular program of the workshop invited high quality original papers on the relevant areas. In total, there were seven submissions that were peer-reviewed by seventeen invited reviewers. Each paper was assigned three reviewers, aiming for at least two reviews per work. Through this review process, six of the seven submitted papers were accepted for publication in the workshop proceedings.

Apart from the regular papers, the workshop also had original contributions in the form of extended abstracts, with the goal of including high-potential but preliminary works. These works were presented as posters in the poster session but are not published as part of the workshop proceedings. Of the four submissions, three were chosen for acceptance by the program chairs.

Finally, the organizers invited six works from the main ECCV'18 conference related in aim to the workshop to be presented in the poster session.

Two works were given awards sponsored by Facebook Reality Labs. The best paper award was decided by the program chairs, while the best poster award was decided in a vote from selected workshop attendants including organizers, invited speakers and topic experts. The best paper award was given to the work “Hand-tremor Frequency Estimation in Videos” by Silvia L Pinteá, Jian Zheng, Xilin Li, Paulina J. M. Bank, Jacobus J. van Hilten, and Jan van Gemert. The best poster award was given to the work “Hand Pose Estimation via Latent 2.5D Heatmap Regression”, by Umar Iqbal, Pavlo Molchanov, Thomas Breuel, Juergen Gall, and Jan Kautz.

Detailed information and scientific contents of the workshop can be found in the discussion paper that follows this preface.

September 2018

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