

# UAV-g 2017

The UAV-g 2017 conference was successfully held in Bonn from September 4-7, 2017. The event hosted around 180 researchers from various research fields and from over 25 countries. The conference featured two plenary tasks, one given by Prof. Davide Scaramuzza on Autonomous, Agile, Vision-controlled Drones: from Active to Event Vision and one by Prof. Charles Toth on UAS Technology: The Challenges of Mapping.

The conference started with a one-day tutorial on 'Towards Real Time Visual Odometry and Mapping with UAVs' (Wolfgang Förstner, approx. 80 participants), a half-day tutorial on 'Building and Controlling Using V-REP and ROS' (Ahmad Kamal Nasir, approx. 20 participants) and a half-day Workshop on 'UAVs for Agricultural and Multispectral Remote Sensing (AG-SPEC)' organized by Frank Liebisch, Juan Nieto, and Raghav Khanna (approx. 60 participants).

The technical program span over 3 days and hosted sessions on Odometry & Positioning, Flights and Objects, Inspection and Environment Monitoring, Visual Mapping, Quality Assessment, Vegetation Monitoring & Agriculture, Multi-Sensor Systems, LIDAR-Based Systems, and Convolutional Neural Networks.

UAV-g 2017 received over 100 submissions and in sum 13 papers have been published in the ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume IV-2/W3 and 60 papers for the ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-2/W6. The selection process was made by the Program Chairs Cyrill Stachniss and Wolfgang Förstner in conjunction with 14 Area Chairs. The proceedings are available online via the conference website at: <http://uavg17.ipb.uni-bonn.de> as well as through the ISPRS website:

ISPRS Annals: <https://www.isprs-ann-photogramm-remote-sens-spatial-inf-sci.net/IV-2-W3/>

ISPRS Achives: <https://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLII-2-W6/>

In conjunction with UAVg, there will be a Special Issue on Latest developments, methodologies and applications based on UAV platforms by MDPI Drones with the Guest Editors Francesco Nex and Fabio Remondino. Call: [http://uavg17.ipb.uni-bonn.de/wp-content/uploads/2017/08/drones\\_uavg\\_v2.pdf](http://uavg17.ipb.uni-bonn.de/wp-content/uploads/2017/08/drones_uavg_v2.pdf)