

**W07 – 2nd International Workshop  
on Computer Vision for UAVs**

## **W07 – 2nd International Workshop on Computer Vision for UAVs**

With great pleasure we present the proceedings of the 2nd International Workshop on Computer Vision for UAVs (UAVision). This half-day workshop was held on the 8th of September 2018 in conjunction with the 15th European Conference on Computer Vision (ECCV) in Munich, Germany. The focus of this workshop was on state-of-the-art real-time image processing on-board of Unmanned Aerial Vehicles (UAVs), making efficient use of specific embedded hardware and highly optimizing implementations. In total we received 14 submissions which were all double blind reviewed. For this, we composed an expert panel consisting of 62 reviewers, which in total produced 76 reviews. All papers had a minimum of 5 reviews each (with the exception of one paper, which had 4 reviewers). Based on these reviews the program committee selected four papers as full oral presentation (20 minutes talk) and five papers as short oral presentation (15 minutes talk). The best paper award consisted of 500USD, which was sponsored by the MDPI open access journal Drones. Given the reviews and oral presentations, the organizing committee decided to select the paper titled: *Teaching UAVs to race: End-to-End Regression of Agile Controls in Simulation* as best paper. In total we estimated that our workshop gathered more than 60 attendees. Apart from all accepted papers as mentioned above, these workshop proceedings also include a discussion paper written by the workshop organizers (which was not peer-reviewed). In this paper we aimed to summarize the presented work and highlighted a number of common challenges and diverse proposed solutions for UAV vision applications that were identified by multiple authors. We would like to thank all members of the program committee and all contributed authors for the work they invested in assuring that our UAVision2018 workshop was of great success and achieved a high-quality standard.

September 2018

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