**DAGM MVTec Dissertation Award 2016**

Laudatio for Dr. Christoph Vogel

The DAGM MVTec Dissertation Award is awarded to Christoph Vogel.

Dr. Christoph Vogel graduated in computer science at RWTH Aachen and received his Diploma in 2006. From 2006 to 2009, he worked in industry at Polygon Technology in Darmstadt on 3D face recognition for automated border control. He then returned to academia and worked as a research assistant at TU Darmstadt and ETH Zürich from 2009 until 2015 under the supervision of Prof. Konrad Schindler and received his PhD degree from ETH Zürich in 2015. He currently is a post-doctoral researcher at TU Graz.

In his thesis, entitled “Robust and accurate 3D motion estimation under adverse conditions”, Christoph Vogel worked on the problem of 3D scene flow estimation. The key publication of his thesis was awarded with the Marr Prize honorable mention at ICCV 2013. The proposed model allows for jointly reasoning about segmentation, geometry and motion. Further innovations include a view-consistent scene space representation that permits to handle multiple frames in a temporal sliding window. The final model is among the state-of-the-art in motion estimation, currently leading the competition in the KITTI optical flow and scene flow benchmarks.