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# Dynamic 3D Imaging

DAGM 2009 Workshop, Dyn3D 2009  
Jena, Germany, September 9, 2009  
Proceedings

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# Preface

3D imaging sensors have been investigated for several decades. Recently, improvements on classical approaches such as stereo vision and structured light on the one hand, and novel time-of-flight (ToF) techniques on the other hand have emerged, leading to 3D vision systems with radically improved characteristics. Presently, these techniques make full-range 3D data available at interactive frame rates, and thus open the path toward a much broader application of 3D vision systems.

The workshop on Dynamic 3D Vision (Dyn3D) was held in conjunction with the annual conference of the German Association of Pattern Recognition (DAGM) in Jena on September 9, 2009. Previous workshops in this series have focused on the same topic, i.e., the Dynamic 3D Vision workshop in conjunction with the DAGM conference in 2007 and the CVPR workshop Time of Flight Camera-Based Computer Vision (TOF-CV) in 2008. The goal of this year's workshop, as for the prior events, was to constitute a platform for researchers working in the field of real-time range imaging, where all aspects, from sensor evaluation to application scenarios, are addressed.

After a very competitive and high-quality reviewing process, 13 papers were accepted for publication in this LNCS issue. The research area on dynamic 3D vision proved to be extremely lively. Again, as for prior workshops on this field, numerous new insights and novel approaches on time-of-flight sensors, on real-time mono- and multidimensional data processing and on various applications are presented in these workshop proceedings.

We would like to thank all the people who contributed to this event and to the workshop proceedings at hand. Special thanks go to the organizers of the DAGM, to the sponsors, to the supporting organizations, and, last but not least, to the members of the Program Committee.

September 2009

Andreas Kolb  
Reinhard Koch

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