Journal Articles


Conference and Workshop Papers


Keywords: Rgb-d

List of Publications


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List of Publications

[C19] T. Schöps, J. Engel and D. Cremers,
*Semi-Dense Visual Odometry for AR on a Smartphone,*

[C20] R. Maier, J. Sturm and D. Cremers,
*Submap-based Bundle Adjustment for 3D Reconstruction from RGB-D Data,*
*German Conference on Pattern Recognition (GCPR),* Münster, Germany, September 2014, *Oral Presentation.*

[C21] C. Kerl, M. Souiai, J. Sturm and D. Cremers,
*Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras,*

[C22] C. Kerl, J. Sturm and D. Cremers,
*Robust Odometry Estimation for RGB-D Cameras,*

[C23] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
*Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,*

[C24] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
*Direct Camera Pose Tracking and Mapping With Signed Distance Functions,*
*Demo Track of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at the Robotics: Science and Systems Conference (RSS),* June 2013.

[C25] C. Kerl, J. Sturm and D. Cremers,
*Dense Visual SLAM for RGB-D Cameras,*
*Proc. of the Int. Conf. on Intelligent Robot Systems (IROS),* 2013.

[C26] T. Naseer, J. Sturm and D. Cremers,
*FollowMe: Person Following and Gesture Recognition with a Quadrocopter,*
*Proc. of the Int. Conf. on Intelligent Robot Systems (IROS),* 2013.

[C27] M. Klodt, J. Sturm and D. Cremers,
*Scale-Aware Object Tracking with Convex Shape Constraints on RGB-D Images,*
*German Conference on Pattern Recognition (GCPR),* Saarbrücken, Germany, September 2013.

[C28] J. Sturm, E. Bylow, F. Kahl and D. Cremers,
*Dense Tracking and Mapping with a Quadrocopter,*
*Unmanned Aerial Vehicle in Geomatics (UAV-g),* Rostock, Germany, September 2013.

[C29] J. Sturm, E. Bylow, F. Kahl and D. Cremers,
*CopyMe3D: Scanning and Printing Persons in 3D,*
*German Conference on Pattern Recognition (GCPR),* Saarbrücken, Germany, September 2013.
Keywords: Rgb-d

List of Publications

[C30] J. Engel, J. Sturm and D. Cremers,
Semi-Dense Visual Odometry for a Monocular Camera,
IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, December 2013.

[C31] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, 2013.

[C32] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
An Evaluation of the RGB-D SLAM System,

[C33] L. Zhang, J. Sturm, D. Cremers and D. Lee,
Real-Time Human Motion Tracking using Multiple Depth Cameras,

[C34] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
A Benchmark for the Evaluation of RGB-D SLAM Systems,

[C35] J. Sturm, W. Burgard and D. Cremers,
Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark,

[C36] N. Engelhard, F. Endres, J. Hess, J. Sturm and W. Burgard,
Real-time 3D visual SLAM with a hand-held camera,

[C37] J. Stühmer, S. Gumhold, N. Engelhard, F. Pomerleau, F. Colas, W. Burgard, D. Cremers and R. Siegwart,
Towards a benchmark for RGB-D SLAM evaluation,

[C38] F. Steinbruecker, J. Sturm and D. Cremers,
Real-Time Visual Odometry from Dense RGB-D Images,
Workshop on Live Dense Reconstruction with Moving Cameras at the Intl. Conf. on Computer Vision (ICCV), 2011.

[C39] J. Stühmer, S. Gumhold and D. Cremers,
Real-Time Dense Geometry from a Handheld Camera,
Pattern Recognition (Proc. DAGM), Darmstadt, Germany, 11-20, September 2010.

[C40] J. Stühmer, S. Gumhold and D. Cremers,
Parallel Generalized Thresholding Scheme for Live Dense Geometry from a Handheld Camera,
ECCV Workshop on Computer Vision on GPUs (CVGEP), Heraklion, Greece, September 2010.
MastersThesis

[M1] R. Maier,
Out-of-Core Bundle Adjustment for 3D Workpiece Reconstruction,
Technische Universität München, Germany, September 2013.

[M2] C. Kerl,
Odometry from RGB-D Cameras for Autonomous Quadrocopters,
Technical University Munich, Germany, Nov. 2012.