Conference and Workshop Papers

[C1] R. Maier, R. Schaller and D. Cremers,
*Efficient Online Surface Correction for Real-time Large-Scale 3D Reconstruction*,

[C2] 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*.

[C3] C. Kerl, J. Sturm and D. Cremers,
*Robust Odometry Estimation for RGB-D Cameras*,

[C4] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
*Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions*,

[C5] 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.

[C6] C. Kerl, J. Sturm and D. Cremers,
*Dense Visual SLAM for RGB-D Cameras*,

[C7] 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.

[C8] 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.

[C9] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
*An Evaluation of the RGB-D SLAM System*,

[C10] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
*A Benchmark for the Evaluation of RGB-D SLAM Systems*,

[C11] J. Sturm, W. Burgard and D. Cremers,
*Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark*,
Keywords: Rgb-d Benchmark

List of Publications

[C12] N. Engelhard, F. Endres, J. Hess, J. Sturm and W. Burgard,
Real-time 3D visual SLAM with a hand-held camera,
Proc. of the RGB-D Workshop on 3D Perception in Robotics at the European Robotics
Forum, Vasteras, Sweden, April 2011.

and R. Siegwart,
Towards a benchmark for RGB-D SLAM evaluation,
Proc. of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at Robotics:
Science and Systems Conf. (RSS), Los Angeles, USA, June 2011.

[C14] 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 Com-

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.