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## Conference and Workshop Papers

- [C1] R. Maier, R. Schaller and D. Cremers,  
**Efficient Online Surface Correction for Real-time Large-Scale 3D Reconstruction,**  
*British Machine Vision Conference (BMVC)*, London, United Kingdom, September 2017.
- [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,**  
May 2013, **Best Vision Paper Award - Finalist.**
- [C4] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,  
**Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,**  
*Robotics: Science and Systems Conference (RSS)*, June 2013.
- [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,**  
*Proc. of the Int. Conf. on Intelligent Robot Systems (IROS)*, 2013.
- [C7] J. Sturm, E. Bylow, F. Kahl and D. Cremers,  
**Dense Tracking and Mapping with a Quadcopter,**  
*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,**  
St. Paul, MA, USA, May 2012.
- [C10] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,  
**A Benchmark for the Evaluation of RGB-D SLAM Systems,**  
*Proc. of the International Conference on Intelligent Robot Systems (IROS)*, Oct. 2012.
- [C11] J. Sturm, W. Burgard and D. Cremers,  
**Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark,**  
*Proc. of the Workshop on Color-Depth Camera Fusion in Robotics at the IEEE/RJS International Conference on Intelligent Robot Systems (IROS)*, Oct. 2012.

- [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.
- [C13] J. Sturm, S. Magnenat, N. Engelhard, F. Pomerleau, F. Colas, W. Burgard, D. Cremers 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 Computer Vision (ICCV)*, 2011.

## **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.