[C1] L. Ma, C. Kerl, J. Stueckler and D. Cremers,
CPA-SLAM: Consistent Plane-Model Alignment for Direct RGB-D SLAM,
Int. Conf. on Robotics and Automation, May 2016.

[C2] Dzitsiuk, M., Sturm, J., Maier, R., Ma, L., Cremers and D.,
De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using Plane Priors,

[C1] M. Jaimez, M. Souiai, J. Gonzalez-Jimenez and D. Cremers,
A Primal-Dual Framework for Real-Time Dense RGB-D Scene Flow,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 2015.

[C2] R. Maier, J. Stueckler and D. Cremers,
Super-Resolution Keyframe Fusion for 3D Modeling with High-Quality Textures,
International Conference on 3D Vision (3DV), 2015.

[C3] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers,
Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images,

[C4] C. Kerl, J. Stueckler and D. Cremers,
Dense Continuous-Time Tracking and Mapping with Rolling Shutter RGB-D Cameras,
IEEE International Conference on Computer Vision (ICCV), Santiago, Chile, 2015.

Model-Based Tracking at 300Hz using Raw Time-of-Flight Observations,
IEEE International Conference on Computer Vision (ICCV), Santiago, Chile, 2015.

[C1] F. Steinbruecker, J. Sturm and D. Cremers,
Volumetric 3D Mapping in Real-Time on a CPU,
Int. Conf. on Robotics and Automation, Hongkong, China, 2014.

[C2] J. Engel, T. Schöps and D. Cremers,
LSD-SLAM: Large-Scale Direct Monocular SLAM,
European Conference on Computer Vision (ECCV), September 2014, Oral Presentation.

[C3] T. Schöps, J. Engel and D. Cremers,
Semi-Dense Visual Odometry for AR on a Smartphone,
International Symposium on Mized and Augmented Reality, September 2014, Best Short Paper Award.

[C4] 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.
C. Kerl, M. Souiai, J. Sturm and D. Cremers, 
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras, 

C. Kerl, J. Sturm and D. Cremers, 
Robust Odometry Estimation for RGB-D Cameras, 
*Int. Conf. on Robotics and Automation*, May 2013, Best Vision Paper Award - Finalist.

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

E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers, 
Direct Camera Pose Tracking and Mapping With Signed Distance Functions, 

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

T. Naseer, J. Sturm and D. Cremers, 
FollowMe: Person Following and Gesture Recognition with a Quadrocopter, 

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.

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.

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.

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.

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

[C1] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,  
An Evaluation of the RGB-D SLAM System,  
Int. Conf. on Robotics and Automation, St. Paul, MA, USA, May 2012.

[C2] L. Zhang, J. Sturm, D. Cremers and D. Lee,  
Real-Time Human Motion Tracking using Multiple Depth Cameras,  

[C3] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,  
A Benchmark for the Evaluation of RGB-D SLAM Systems,  

[C4] J. Sturm, W. Burgard and D. Cremers,  
Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark,  

[M1] C. Kerl,  
Odometry from RGB-D Cameras for Autonomous Quadrocopters,  
Technical University Munich, Germany, Nov. 2012.

[C1] N. Engelhard, F. Endres, J. Hess, J. Sturm and W. Burgard,  
Real-time 3D visual SLAM with a hand-held camera,  

Towards a benchmark for RGB-D SLAM evaluation,  

[C3] 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.

[C1] J. Stuhmer, S. Gumhold and D. Cremers,  
Real-Time Dense Geometry from a Handheld Camera,  
Pattern Recognition (Proc. DAGM), Darmstadt, Germany, 11-20, September 2010.

[C2] J. Stuhmer, S. Gumhold and D. Cremers,  
Parallel Generalized Thresholding Scheme for Live Dense Geometry from a Handheld Camera,  
ECCV Workshop on Computer Vision on GPUs (CVGPU), Heraklion, Greece, September 2010.