

## Journal Articles

- [J1] J. Engel, V. Koltun and D. Cremers,  
**Direct Sparse Odometry**,  
March 2018.
- [J2] P. Bergmann, R. Wang and D. Cremers,  
**Online Photometric Calibration of Auto Exposure Video for Realtime Visual Odometry and SLAM**,  
*IEEE Robotics and Automation Letters (RA-L)*, 3: 627-634, April 2018, **ICRA'18 Best Vision Paper Award - Finalist**.

## Conference and Workshop Papers

- [C1] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers,  
**Rolling-Shutter Modelling for Visual-Inertial Odometry**,  
November 2019.
- [C2] L. von Stumberg, V. Usenko and D. Cremers,  
**Direct Sparse Visual-Inertial Odometry using Dynamic Marginalization**,  
May 2018.
- [C3] X. Gao, R. Wang, N. Demmel and D. Cremers,  
**LDSO: Direct Sparse Odometry with Loop Closure**,  
*iros*, October 2018.
- [C4] N. Yang, R. Wang, J. Stueckler and D. Cremers,  
**Deep Virtual Stereo Odometry: Leveraging Deep Depth Prediction for Monocular Direct Sparse Odometry**,  
*eccv*, September 2018, **Oral Presentation**.
- [C5] R. Wang, M. Schwörer and D. Cremers,  
**Stereo DSO: Large-Scale Direct Sparse Visual Odometry with Stereo Cameras**,  
*International Conference on Computer Vision (ICCV)*, Venice, Italy, October 2017.
- [C6] J. Engel, V. Usenko and D. Cremers,  
**A Photometrically Calibrated Benchmark For Monocular Visual Odometry**,  
*arXiv:1607.02555*, July 2016.
- [C7] J. Engel, V. Koltun and D. Cremers,  
**Direct Sparse Odometry**,  
*arXiv:1607.02565*, July 2016.