Journal Articles

[J1] L. von Stumberg and D. Cremers, 
DM-VIO: Delayed Marginalization Visual-Inertial Odometry, 

[J2] L. von Stumberg, P. Wenzel, Q. Khan and D. Cremers, 
GN-Net: The Gauss-Newton Loss for Multi-Weather Relocalization, 

Omnidirectional DSO: Direct Sparse Odometry with Fisheye Cameras, 

Conference and Workshop Papers

[C1] F. Wimbauer, N. Yang, L. von Stumberg, N. Zeller and D Cremers, 
MonoRec: Semi-Supervised Dense Reconstruction in Dynamic Environments from a Single Moving Camera, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.

[C2] N. Yang, L. von Stumberg, R. Wang and D. Cremers, 
D3VO: Deep Depth, Deep Pose and Deep Uncertainty for Monocular Visual Odometry, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020, *Oral Presentation*.

4Seasons: A Cross-Season Dataset for Multi-Weather SLAM in Autonomous Driving, 

[C4] L. von Stumberg, P. Wenzel, N. Yang and D. Cremers, 
LM-Reloc: Levenberg-Marquardt Based Direct Visual Relocalization, 

[C5] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers, 
Rolling-Shutter Modelling for Visual-Inertial Odometry, 

[C6] L. von Stumberg, V. Usenko and D. Cremers, 
Direct Sparse Visual-Inertial Odometry using Dynamic Marginalization, 

From Monocular SLAM to Autonomous Drone Exploration, 
[C8] V. Usenko, L. von Stumberg, A. Pangeric and D. Cremers,
Real-Time Trajectory Replanning for MAVs using Uniform B-splines and a 3D Circular Buffer,
*International Conference on Intelligent Robots and Systems (IROS)*, Vancouver, Canada, Sep 2017, **Best Paper Award - Finalist**.