Journal Articles

[J1] 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] 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, 

[C3] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers, 
Rolling-Shutter Modelling for Visual-Inertial Odometry, 

[C4] L. von Stumberg, V. Usenko and D. Cremers, 
Direct Sparse Visual-Inertial Odometry using Dynamic Marginalization, 

[C5] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
From Monocular SLAM to Autonomous Drone Exploration, 

[C6] 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, 