Author: L. Von Stumberg  
List of Publications

Journal Articles

[J1] L. von Stumberg and D. Cremers,  
DM-VIO: Delayed Marginalization Visual-Inertial Odometry,  
IEEE Robotics and Automation Letters (RA-L) 38; International Conference on Robotics  

[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,  
IEEE Robotics and Automation Letters 38; Int. Conference on Intelligent Robots and  

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,  

[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 Pre-  
presentation.

Cremers,  
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,  
International Conference on Robotics and Automation (ICRA), May 2018.

From Monocular SLAM to Autonomous Drone Exploration,  
European Conference on Mobile Robots (ECMR), September 2017.
[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**.