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List of Publications

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, 

**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. Panceric 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 ().