Author: L. Von Stumberg

List of Publications

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] 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,**