Journal Articles


Conference and Workshop Papers

[C1] N Demmel, C Sommer, D Cremers and V Usenko, Square Root Bundle Adjustment for Large-Scale Reconstruction, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.


Author: V. Usenko

List of Publications

[C9] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
From Monocular SLAM to Autonomous Drone Exploration, 
European Conference on Mobile Robots (ECMR), September 2017.

[C10] V. Usenko, L. von Stumberg, A. Pangercic 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 ( )

[C11] V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
Direct Visual-Inertial Odometry with Stereo Cameras, 
International Conference on Robotics and Automation (ICRA), May 2016.

[C12] J. Engel, V. Usenko and D. Cremers, 
A Photometrically Calibrated Benchmark For Monocular Visual Odometry, 

[C13] V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
Reconstructing Street-Scenes in Real-Time From a Driving Car, 

[C14] V. Usenko, F. Seidel, Z. Marton, D. Pangercic and M. Beetz, 
Furniture Classification using WWW CAD Models, 

PhDThesis

[PhD1] V Usenko, 
Visual-Inertial Navigation for Autonomous Vehicles, 
Technische Universität München, München, 2019.