Journal Articles

[J1] J. Engel, V. Koltun and D. Cremers, 
Direct Sparse Odometry, 

[J2] P. Bergmann, R. Wang and D. Cremers, 
Online Photometric Calibration of Auto Exposure Video for Realtime Visual Odometry and SLAM, 

Omnidirectional DSO: Direct Sparse Odometry with Fisheye Cameras, 

Conference and Workshop Papers

[C1] M. Gladkova, R. Wang, N. Zeller and D. Cremers, 
Tight Integration of Feature-based Relocalization in Monocular Direct Visual Odometry, 

[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.

[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] X. Gao, R. Wang, N. Demmel and D. Cremers, 
LDSO: Direct Sparse Odometry with Loop Closure, 

[C6] N. Yang, R. Wang, J. Stueckler and D. Cremers, 
Deep Virtual Stereo Odometry: Leveraging Deep Depth Prediction for Monocular Direct Sparse Odometry, 

[C7] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers, 
Direct Sparse Odometry With Rolling Shutter, 
Keywords: Dso

List of Publications

[C8] R. Wang, M. Schwörer and D. Cremers,
Stereo DSO: Large-Scale Direct Sparse Visual Odometry with Stereo Cameras,

[C9] J. Engel, V. Usenko and D. Cremers,
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[C10] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,