Journal Articles

[J1] V. Usenko, N. Demmel, D. Schubert, J. Stueckler and D. Cremers,
Visual-Inertial Mapping with Non-Linear Factor Recovery,
IEEE Robotics and Automation Letters (RA-L) 38; Int. Conference on Intelligent Robotics

Conference and Workshop Papers

[C1] D Muhle, L Koestler, N Demmel, F Bernard and D Cremers,
The Probabilistic Normal Epipolar Constraint for Frame-To-Frame Rotation
Optimization under Uncertain Feature Positions,
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022.

[C2] S Weber, N Demmel, T Chon Chan and D Cremers,
Power Bundle Adjustment for Large-Scale 3D Reconstruction,
submission, 2022.

[C3] M Gladkova, N Korobov, N Demmel, A Osep, L Leal-Taixe and D Cremers,
DirectTracker: 3D Multi-Object Tracking Using Direct Image Alignment and
Photometric Bundle Adjustment,

[C4] N Demmel, C Sommer, D Cremers and V Usenko,
Square Root Bundle Adjustment for Large-Scale Reconstruction,

[C5] N Demmel, D Schubert, C Sommer, D Cremers and V Usenko,
Square Root Marginalization for Sliding-Window Bundle Adjustment,
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[C6] MW Wudenka, MG Müller, N Demmel, A Wedler, R Triebel, D Cremers and W Stuerzl,
Towards Robust Monocular Visual Odometry for Flying Robots on Planetary
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[C7] S Klenk, J Chui, N Demmel and D Cremers,
TUM-VIE: The TUM Stereo Visual-Inertial Event Dataset,

[C8] S Weber, N Demmel and D Cremers,
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[C9] C. Sommer, V. Usenko, D. Schubert, N. Demmel and D. Cremers,
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[C11] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers,
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The TUM VI Benchmark for Evaluating Visual-Inertial Odometry,

[C13] X. Gao, R. Wang, N. Demmel and D. Cremers,
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[C14] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers,
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[C15] V. Usenko, N. Demmel and D. Cremers,
The Double Sphere Camera Model,

[C16] J. Diebold, N. Demmel, C. Hazirbas, M. Möller and D. Cremers,
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Scale Space and Variational Methods in Computer Vision (SSVM), June 2015.

[C17] L Mösenlechner, N Demmel and M Beetz,
Becoming action-aware through reasoning about logged plan execution traces,