Journal Publications

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

[J2] N. Yang, R. Wang, X. Gao and D. Cremers,
**Challenges in Monocular Visual Odometry: Photometric Calibration, Motion Bias and Rolling Shutter Effect**, 

[J3] Queau, Y., Mecca, R., Durou, J.-D., Descombes and X.,
**Photometric Stereo with Only Two Images: A Theoretical Study and Numerical Resolution**, 

[J4] Bähr, M., Breus, M., Queau, Y., Bouroujerdi, A. S., Durou and J.-D.,
**Fast and accurate surface normal integration on non-rectangular domains**, 

**Tau Like Proteins Reduce Torque Generation in Microtubule Bundles**, 

[J6] E. Rodola, L. Cosmo, M. M. Bronstein, A. Torsello and D. Cremers,
**Partial Functional Correspondence**, 

[J7] L. Cosmo, E. Rodola, A. Albarelli, F. Memoli and D. Cremers,
**Consistent Partial Matching of Shape Collections via Sparse Modeling**, 

[J8] D. Boscaini, J. Masci, E. Rodola, M. M. Bronstein and D. Cremers,
**Anisotropic Diffusion Descriptors**, 

[J9] F. Bergamasco, A. Albarelli, L. Cosmo, E. Rodola and A. Torsello,
**An Accurate and Robust Artificial Marker based on Cyclic Codes**, 2016.

**Bias and Precision Analysis of Diffusional Kurtosis Imaging for Different Acquisition Schemes**, 2016.

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Multi-Layered Mapping and Navigation for Autonomous Micro Aerial Vehicles, 

[J26] E. Rodola, A. Albarelli, D. Cremers and A. Torsello, 
A Simple and Effective Relevance-based Point Sampling for 3D Shapes, 

[J27] R. Mecca, E. Rodola and D. Cremers, 
Realistic Photometric Stereo Using Partial Differential Irradiance Equation Ratios, 

[J28] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers, 
The Primal-Dual Hybrid Gradient Method for Semiconvex Splittings, 

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[J30] Hugo Grimmett, Rudolph Triebel, Rohan Paul and Ingmar Posner, 
Introspective classification for robot perception, 

[J31] T. Whelan, L. Ma, E. Bondarev, P. de With and J. McDonald, 
Incremental and Batch Planar Simplification of Dense Point Cloud Maps, 

[J32] B. Goldluecke, M. Aubry, K. Kolev and D. Cremers, 
A Super-resolution Framework for High-Accuracy Multiview Reconstruction, 

[J33] E. Strekalovskiy, A. Chambolle and D. Cremers, 
Convex Relaxation of Vectorial Problems with Coupled Regularization, 

[J34] J. Engel, J. Sturm and D. Cremers, 
Scale-Aware Navigation of a Low-Cost Quadrocopter with a Monocular Camera, 

[J35] E. Rodola, S. Rota Bulo and D. Cremers, 
Robust Region Detection via Consensus Segmentation of Deformable Shapes, 

[J36] M. Schadler, J. Stueckler and S. Behnke, 
Rough Terrain Mapping and Navigation using a Continuously Rotating 2D Laser Scanner, 

[J37] J. Stueckler, B. Waldvogel, H. Schulz and S. Behnke, 
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[J38] J. Stueckler and S. Behnke,

[J39] E. Rodola, A. Albarelli, F. Bergamasco and A. Torsello,

[J40] A. Torsello, A. Albarelli and E. Rodola,

[J41] C. Nieuwenhuis and D. Cremers,

[J42] C. Nieuwenhuis, E. Toeppe and D. Cremers,

[J43] B. Goldluecke, E. Strekalovskiy and D. Cremers,

[J44] F. Endres, J. Hess, J. Sturm, D. Cremers and W. Burgard,

[J45] Liu, Z., Beetz, M., Cremers, D., Gall, J., Li, W., Pangercic, D., Sturm, J., Tai and Y.-W.,

[J46] A. Albarelli, E. Rodola and A. Torsello,

[J47] A. Chambolle, D. Cremers and T. Pock,

[J48] T. Schoenemann and D. Cremers,

[J49] T. Schoenemann, F. Kahl, S. Masnou and D. Cremers,
[J50] D. Cremers,  
**Optimal Solutions for Semantic Image Decomposition,**  

[J51] S. Chen, D. Cremers and R. J. Radke,  
**Image segmentation with one shape prior - A template-based formulation,**  

[J52] B. Goldluecke, E. Strekalovskiy and D. Cremers,  
**The Natural Total Variation Which Arises from Geometric Measure Theory,**  

[J53] U. Schlickewei,  
**On the André motive of certain irreducible symplectic varieties,**  

[J54] K. Kolev, T. Brox and D. Cremers,  
**Fast Joint Estimation of Silhouettes and Dense 3D Geometry from Multiple Images,**  

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**Total Cyclic Variation and Generalizations,**  

[J57] J. Stueckler, R. Steffens, D. Holz and S. Behnke,  
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**RoboCup@Home: Demonstrating Everyday Manipulation Skills in RoboCup@Home,**  

[J59] T. Windheuser, U. Schlickewei, F. R. Schmidt and D. Cremers,  
**Large-Scale Integer Linear Programming for Orientation-Preserving 3D Shape Matching,**  

[J60] D. Cremers and K. Kolev,  
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[J62] T. Schoenemann, S. Masnou and D. Cremers,
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[J64] S. Chitta, J. Sturm, M. Piccoli and W. Burgard,
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[J74] T. Brox and D. Cremers,
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[J75] T. Brox, B. Rosenhahn, J. Gall and D. Cremers,
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[J76] K. Kolev, M. Klodt, T. Brox and D. Cremers,
Continuous Global Optimization in Multiview 3D Reconstruction,

[J77] A. Wedel, C. Rabe, H. Badino, H. Loose, U. Franke and D. Cremers,
B-Spline Modeling of Road Surfaces with an Application to Free Space Estimation,

[J78] U. Schlickewei,
Hodge classes on self-products of K3 surfaces,

[J79] E. Strekalovskiy,
Folgen von Höhenfußpunktdreiecken und ihre Grenzpunkte,

[J80] J. Sturm, C. Plagemann and W. Burgard,
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[J81] J. Sturm, and A. Visser,
An appearance-based visual compass for mobile robots,

[J82] T. Brox, O. Kleinschmidt and D. Cremers,
Efficient Nonlocal Means for Denoising of Textural Patterns,

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[J84] H. Jin, D. Cremers, D. Wang, A. Yezzi, E. Prados and S. Soatto,
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[J88] S. Behnke and J. Stueckler, 
Hierarchical Reactive Control for Humanoid Soccer Robots, 

[J89] T. Pock, M. Pock and H. Bischof, 
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[J90] B. Rosenhahn, T. Brox and J. Weickert, 
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[J113] D. Cremers, T. Kohlberger and C. Schnörr,
Shape Statistics in Kernel Space for Variational Image Segmentation,

[J114] D. Cremers and C. Schnörr,
Statistical shape knowledge in variational motion segmentation,

[J115] J. Keuchel, C. Schnörr, C. Schellewald and D. Cremers,
Binary partitioning, perceptual grouping, and restoration with semidefinite programming,

[J116] D. Cremers and A. V. M. Herz,
Travelling waves of excitation in neural field models: Equivalence of rate descriptions and integrate-and-fire dynamics,

[J117] D. Cremers, F. Tischhäuser, J. Weickert and C. Schnörr,
Diffusion Snakes: Introducing statistical shape knowledge into the Mumford–Shah functional,

[J118] D. Cremers and A. Mielke,
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[B1] D. Cremers, I. Reid, H. Saito and M.-S. Yang (Editors),
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[B3] Guest Editors: Y. Boykov, F. Kahl, V. Lempitsky and F. R. Schmidt, 
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[BC1] Vestner, M., Rodola, E., Windheuser, T., Bulo, Rota Bulo, S., Cremers and D., 
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[BC7] Sturm, J., Plagemann, C., Burgard and W., 
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[BC8] M. Schikora, W. Koch, R. L. Streit and D. Cremers, 
A Sequential Monte Carlo Method for Multi-Target Tracking with the Intensity Filter, 

[BC9] D. Cremers, T. Pock, K. Kolev and A. Chambolle, 
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[BC10] D. Cremers, 
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[BC11] A. Chambolle, V. Caselles, D. Cremers, M. Novaga and T. Pock, 
An Introduction to Total Variation for Image Analysis, 

[BC12] T. Brox, B. Rosenhahn and D. Cremers, 
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[BC14] D. Cremers and M. Rousson, 
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[BC16] D. Cremers and T. Kohlberger,
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[C1] Caner Hazirbas, Sebastian Georg Soyer, Maximilian Christian Staab, Laura Leal-Taixe and Daniel Cremers,
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[C2] M. Jaimez, C. Kerl, J. Gonzalez-Jimenez and D. Cremers,
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[C6] Dzitsiuk, M., Sturm, J., Maier, R., Ma, L., Cremers and D., 
*De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using Plane Priors*,

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[C8] Florian Walch, Caner Hazirbas, Laura Leal-Taixe, Torsten Sattler, Sebastian Hilsenbeck and Daniel Cremers, 
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