Publications List of Publications

[J1] E. Rodola, L. Cosmo, M. M. Bronstein, A. Torsello and D. Cremers, 
Partial Functional Correspondence, 

[J2] L. Cosmo, E. Rodola, A. Albarelli, F. Memoli and D. Cremers, 
Consistent Partial Matching of Shape Collections via Sparse Modeling, 

[J3] D. Boscaini, J. Masci, E. Rodola, M. M. Bronstein and D. Cremers, 
Anisotropic Diffusion Descriptors, 

[J4] V. Golkov, A. Dosovitskiy, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann, T. Brox and D. Cremers, 
q-Space Deep Learning: Twelve-Fold Shorter and Model-Free Diffusion MRI Scans, 
IEEE Transactions on Medical Imaging, 35: 2016, Special Issue on Deep Learning.

[J5] O. Litany, E. Rodola, A. M. Bronstein, M. M. Bronstein and D. Cremers, 
Non-Rigid Puzzles, 

[C1] N. Mayer, E. Ilg, P. Häusser, P. Fischer, D. Cremers, A. Dosovitskiy and T. Brox, 
A Large Dataset to Train Convolutional Networks for Disparity, Optical Flow, and Scene Flow Estimation, 
IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2016.

Model-Free Novelty-Based Diffusion MRI, 
IEEE International Symposium on Biomedical Imaging (ISBI), Prague, Czech Republic, April 2016.

[C3] V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
Direct Visual-Inertial Odometry with Stereo Cameras, 
Int. Conf. on Robotics and Automation, May 2016.

[C4] A. Narr, R. Triebel and D. Cremers, 
Stream-based Active Learning for Efficient and Adaptive Classification of 3D Objects, 
Int. Conf. on Robotics and Automation, May 2016.

SHREC16: Partial Matching of Deformable Shapes, 
Proc. of Eurographics Workshop on 3D Object Retrieval (3DOR), May 2016.

[C6] L. Ma, C. Kerl, J. Stueckler and D. Cremers, 
CPA-SLAM: Consistent Plane-Model Alignment for Direct RGB-D SLAM, 
Int. Conf. on Robotics and Automation, May 2016.
[C7] J. Engel, V. Usenko and D. Cremers, 
A Photometrically Calibrated Benchmark For Monocular Visual Odometry, 

[C8] J. Engel, V. Koltun and D. Cremers, 
Direct Sparse Odometry, 

[C9] E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann and D. Cremers, 
Sublabel-Accurate Convex Relaxation of Vectorial Multilabel Energies, 
European Conference on Computer Vision (ECCV), October 2016.

[J1] J. Diebold, C. Nieuwenhuis and D. Cremers, 
Midrange Geometric Interactions for Semantic Segmentation, 

[J2] J. Diebold, S. Tari and D. Cremers, 
The Role of Diffusion in Figure Hunt Games, 

[J3] S. Madhogaria, P. M. Baggenstoss, M. Schikora, W. Koch and D. Cremers, 
Car detection by fusion of HOG and causal MRF, 

[J4] M. Klodt, K. Herzog, R. Tpfer and D. Cremers, 
Field phenotyping of grapevine growth using dense stereo reconstruction, 

[J5] E. Rodola, A. Albarelli, D. Cremers and A. Torsello, 
A Simple and Effective Relevance-based Point Sampling for 3D Shapes, 

[J6] R. Mecca, E. Rodola and D. Cremers, 
Realistic Photometric Stereo Using Partial Differential Irradiance Equation Ratios, 

[J7] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers, 
The Primal-Dual Hybrid Gradient Method for Semiconvex Splittings, 

[C1] M. Moeller, J. Diebold, G. Gilboa and D. Cremers, 
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IEEE International Conference on Computer Vision (ICCV), 2015.

[C2] J. Diebold, N. Demmel, C. Hazrba, M. Müller and D. Cremers, 
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Scale Space and Variational Methods in Computer Vision (SSVM), 2015.

[C3] C. Hazrba, J. Diebold and D. Cremers, 
Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Segmentation, 
Scale Space and Variational Methods in Computer Vision (SSVM), 2015, Oral Presentation.
[C4] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers,
Low Rank Priors for Color Image Regularization,

[C5] M. Jaimez, M. Souiai, J. Gonzalez-Jimenez and D. Cremers,
A Primal-Dual Framework for Real-Time Dense RGB-D Scene Flow,
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[C6] J. Stühmer and D. Cremers,
A Fast Projection Method for Connectivity Constraints in Image Segmentation,

[C7] R. Mecca, E. Rodola and D. Cremers,
Analysis of Surface Parametrizations for Modern Photometric Stereo Modeling,
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[C8] F. Bergamasco, A. Albarelli, L. Cosmo, A. Torsello, E. Rodola and D. Cremers,
Adopting an Unconstrained Ray Model in Light-field Cameras for 3D Shape Reconstruction,
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015.

[C9] D. Mund, R. Triebel and D. Cremers,
Active Online Confidence Boosting for Efficient Object Classification,

[C10] V. Golkov, J. M. Portegies, A. Golkov, R. Duits and D. Cremers,
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MICCAI 2015 Workshop on Computational Diffusion MRI, Munich, Germany, Springer, October 2015, Oral Presentation and Book Chapter.

[C11] A. Dosovitskiy, P. Fischer, E. Ilg, P. Husser, C. Hazrba, V. Golkov, P. van der Smagt, D. Cremers and T. Brox,
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SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports,

[C13] J. Engel, J. Stueckler and D. Cremers,
Large-Scale Direct SLAM with Stereo Cameras,

[C14] D. Caruso, J. Engel and D. Cremers,
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[C15] Y. Tao, R. Triebel and D. Cremers,
Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams,

[C16] R. Maier, J. Stueckler and D. Cremers,
Super-Resolution Keyframe Fusion for 3D Modeling with High-Quality Textures,

[C17] V. Usenko, J. Engel, J. Stueckler and D. Cremers,
Reconstructing Street-Scenes in Real-Time From a Driving Car,

[C18] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers,
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[C19] E. Rodola, M. Moeller and D. Cremers,
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[C20] C. Kerl, J. Stueckler and D. Cremers,
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[C21] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
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[J1] B. Goldluecke, M. Aubry, K. Kolev and D. Cremers,
A Super-resolution Framework for High-Accuracy Multiview Reconstruction,

[J2] E. Strekalovskiy, A. Chambolle and D. Cremers,
Convex Relaxation of Vectorial Problems with Coupled Regularization,

[J3] J. Engel, J. Sturm and D. Cremers,
Scale-Aware Navigation of a Low-Cost Quadrocopter with a Monocular Camera,

[J4] E. Rodola, S. Rota Bulo and D. Cremers,
Robust Region Detection via Consensus Segmentation of Deformable Shapes,

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[C6] F. Steinbruecker, J. Sturm and D. Cremers, 
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[C7] E. Rodola, S. Rota Bulo, T. Windheuser, M. Vestner and D. Cremers, 
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*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2014.

[C9] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers, 
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[C12] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers, 
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Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction, 
[C19] E. Strekalovskiy and D. Cremers,  
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,  

[C20] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,  
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Carsten Lutz and Michael ThIELscher(Eds.), KI 2014: Advances in Artificial Intelligence,  

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[C28] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,  
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[J4] F. Endres, J. Hess, J. Sturm, D. Cremers and W. Burgard,
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[C28] M. R. Oswald and D. Cremers,
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