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[C1] L. Sang, B. Haefner and D. Cremers,
Inferring Super-Resolution Depth from a Moving Light-Source Enhanced RGB-D Sensor: A Variational Approach,
IEEE Winter Conference on Applications of Computer Vision (WACV), Colorado, USA, March 2020, Spotlight Presentation.

[C2] R. Wang, N. Yang, J. Stueckler and D. Cremers,
DirectShape: Photometric Alignment of Shape Priors for Visual Vehicle Pose and Shape Estimation,

[C3] M. Eisenberger, Z. Lähner and D. Cremers,
Smooth Shells: Multi-Scale Shape Registration with Functional Maps,
IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2020, Oral Presentation.
M. Eisenberger and D. Cremers,  
**Hamiltonian Dynamics for Real-World Shape Interpolation,**  
*European Conference on Computer Vision (ECCV)*, 2020, Spotlight Presentation.

S. Weiss, R. Maier, D. Cremers, R. Westermann and N. Thürey,  
**Correspondence-Free Material Reconstruction using Sparse Surface Constraints,**  
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C. Sommer, V. Usenko, D. Schubert, N. Demmel and D. Cremers,  
**Efficient Derivative Computation for Cumulative B-Splines on Lie Groups,**  
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N. Yang, L. von Stumberg, R. Wang and D. Cremers,  
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A. Fontan-Villacampa, J. Civera and R. Triebel,  
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M. Sundermeyer, M. Durner, E. Y. Puang, Z.-C. Marton, N. Vaskevicius, K. O. Arras and R. Triebel,  
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[C16] J. Du, R. Wang and D. Cremers,
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[C17] M Sewtz, T Bodenmüller and R Triebel,
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[C18] CL Gentil, M Vayugundla, R Giubilato, W Stürzl, TA. Vidal-Calleja and R Triebel,
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[C19] C. Sommer, Y. Sun, E. Bylow and D. Cremers,
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[C22] B. Haefner, Z. Ye, M. Gao, T. Wu, Y. Queau and D. Cremers,
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[C23] A. Vasilev, V. Golkov, M. Meissner, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
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[C24] P. Swazinna, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
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[C25] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers,
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[C27] E. Laude, T. Wu and D. Cremers,
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[C28] T. Möllenhoff and D. Cremers,
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Flat Metric Minimization with Applications in Generative Modeling,

[C30] T. Frerix and J. Bruna,
Approximating Orthogonal Matrices with Effective Givens Factorization,

[C31] Q. Khan, P. Wenzel, D. Cremers and L. Leal-Taixe,
Towards Generalizing Sensorimotor Control Across Weather Conditions,

[C32] E.Y. Puang, P. Lehner, Z.C. Marton, M. Durner, R. Triebel and A. Albu-Schäffer,
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[C34] E. Jung, N. Yang and D. Cremers,
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[C35] S. Weiss, R. Maier, R. Westermann, D. Cremers and N. Thuerey,
Sparse Surface Constraints for Combining Physics-based Elasticity Simulation and Correspondence-Free Object Reconstruction,

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[C37] F. Steidle, W. Stürzl and R. Triebel,
Visual-inertial sensor fusion with a bio-inspired polarization compass for navigation of MAVs,
[C38] J. Feng, M. Durner, Z.-C. Marton, F. Balint-Benczedi and R. Triebel, 
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[C39] R. Henschel, L. Leal-Taixe, D. Cremers and B. Rosenhahn, 
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[C41] C. Hazirbas, S. G. Soyer, M. C. Staab, L. Leal-Taixe and D. Cremers, 
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[C42] B. Haefner, Y. Queau, T. Möllenhoff and D. Cremers, 
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[C44] C Domokos, FR. Schmidt and D Cremers, 
*MRF Optimization with Separable Convex Prior on Partially Ordered Labels*, 

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*A Nonconvex Proximal Splitting Algorithm under Moreau-Yosida Regularization*, 
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[C46] T. Möllenhoff, Z. Ye, T. Wu and D. Cremers, 
*Combinatorial Preconditioners for Proximal Algorithms on Graphs*, 
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[C47] R Scona, M Jaimez, YR. Petillot, M Fallon and D Cremers, 
*StaticFusion: Background Reconstruction for Dense RGB-D SLAM in Dynamic Environments*, 
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[C50] B. T. Do, V. Golkov, G. E. Gürel and D. Cremers,
Precursor microRNA Identification Using Deep Convolutional Neural Networks,

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[C57] Z. Lähner, D. Cremers and T. Tung,
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[C58] N. Yang, R. Wang, J. Stueckler and D. Cremers,
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Direct Sparse Odometry With Rolling Shutter, 
European Conference on Computer Vision (ECCV), September 2018, Oral Presentation.

[C60] V. Usenko, N. Demmel and D. Cremers, 
The Double Sphere Camera Model, 

[C61] M. Sundermeyer, Z. Marton, M. Durner, M. Brucker and R. Triebel, 
Implicit 3D Orientation Learning for 6D Object Detection from RGB Images, 
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[C62] M. Denninger and R. Triebel, 
Persistent Anytime Learning of Objects from Unseen Classes, 

[C63] I. Grixa, P. Schulz, W. Stürzl and R. Triebel, 
Appearance-Based Along-Route Localization for Planetary Missions, 

[C64] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel, 
Incremental Semi-Supervised Learning from Streams for Object Classification, 

[C65] V. Estellers, F. Schmidt and D. Cremers, 
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Proc. of the Int. Conference on 3D Vision (3DV), September 2018, Received the Best Paper Award at 3DV 2018.

6DoF Pose Estimation for Industrial Manipulation based on Synthetic Data, 

[C67] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel, 
Simultaneous Calibration and Mapping, 

[C68] P. Wenzel, Q. Khan, D. Cremers and L. Leal-Taixe, 
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Conference on Robot Learning (CoRL), 2018.

[C69] M. Benning, M. Möller, R. Z. Nossek, M. Burger, D. Cremers and G. Gilboa, 
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[C80] Y. Queau, M. Pizenberg, J.-D. Durou and D. Cremers,
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[C81] P. Haeusser, A. Mordvintsev and D. Cremers,
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[C85] T. Meinhardt, M. Moeller, C. Hazirbas and D. Cremers,
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[C88] K. Kurach, S. Gelly, M. Jastrzbski, P. Haeusser, O. Teytaud, D. Vincent and O. Bousquet,
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[C89] P. Haeusser, T. Frerix, A. Mordvintsev and D. Cremers,
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*GRETSI*, Juan-les-Pins, USA, 2017.


[C96] S. Peng, B. Haefner, Y. Queau and D. Cremers, Depth Super-Resolution Meets Uncalibrated Photometric Stereo, International Conference on Computer Vision Workshops (ICCVW), 2017, Oral Presentation at ICCV Workshop on Color and Photometry in Computer Vision.


[C113] Z. Lähner, E. Rodola, F. R. Schmidt, M. M. Bronstein and D. Cremers, 
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*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, May 2016.

[C114] V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
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[C115] A. Narr, R. Triebel and D. Cremers, 
Stream-based Active Learning for Efficient and Adaptive Classification of 3D Objects, 

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

[C117] L. Cosmo, E. Rodola, M. M. Bronstein, A. Torsello, D. Cremers and Y. Sahillioglu, 
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[C118] T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers, 
Sublabel-Accurate Relaxation of Nonconvex Energies, 
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[C119] L. Ma, C. Kerl, J. Stueckler and D. Cremers, 
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[C120] J. Engel, V. Usenko and D. Cremers, 
A Photometrically Calibrated Benchmark For Monocular Visual Odometry, 

[C121] J. Engel, V. Koltun and D. Cremers, 
Direct Sparse Odometry, 

[C122] E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann and D. Cremers, 
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*European Conference on Computer Vision (ECCV)*, October 2016.

[C123] D. Bender, D. Cremers and W. Koch, 
A position free boresight calibration for INS-camera systems, 

[C124] I. Chiotellis, R. Triebel, T. Windheuser and D. Cremers, 
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A Convex Solution to Spatially-Regularized Correspondence Problems, 
*European Conference on Computer Vision (ECCV)*, October 2016.

[C126] S. Sharifzadeh, I. Chiotellis, R. Triebel and D. Cremers, 
Learning to Drive using Inverse Reinforcement Learning and Deep Q-Networks, 
*NIPS Workshops*, December 2016.

[C127] D. Bender, F. Rouatbi, M. Schikora, D. Cremers and W. Koch, 
Scaling the world of monocular SLAM with INS-measurements for UAS navigation, 

[C128] D. Klostermann, A. Osep, J. Stueckler and B. Leibe, 
Unsupervised Learning of Shape-Motion Patterns for Objects in Urban Street Scenes, 

[C129] D. Kochanov, A. Osep, J. Stueckler and B. Leibe, 
Scene Flow Propagation for Semantic Mapping and Object Discovery in Dynamic Street Scenes, 

[C130] F. Engelmann, J. Stueckler and B. Leibe, 
Joint Object Pose Estimation and Shape Reconstruction in Urban Street Scenes Using 3D Shape Priors, 

[C131] M. Moeller, J. Diebold, G. Gilboa and D. Cremers, 
Learning Nonlinear Spectral Filters for Color Image Reconstruction, 
*IEEE International Conference on Computer Vision (ICCV)*, 2015.

[C132] J. Diebold, N. Demmel, C. Hazirbas, M. Möller and D. Cremers, 
Interactive Multi-label Segmentation of RGB-D Images, 
*Scale Space and Variational Methods in Computer Vision (SSVM)*, june 2015.

[C133] C. Hazirbas, J. Diebold and D. Cremers, 
Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Segmentation, 
*Scale Space and Variational Methods in Computer Vision (SSVM)*, june 2015. **Oral Presentation.**

[C134] A. Kanezaki, E. Rodola and T. Harada, 
RGB-D [Graph matching gakushuu wo mochiita RGB-D gazou kara no buttai kenshutsu] - Learning graph matching for object detection from RGB-D images, 
*20 - Robotics Symposia (RS)*, Karuizawa, Japan, mar 2015.

[C135] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers, 
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M. Jaimez, M. Souiai, J. Gonzalez-Jimenez and D. Cremers,  
*A Primal-Dual Framework for Real-Time Dense RGB-D Scene Flow*,  
*Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA)*, 2015.

J. Stühmer and D. Cremers,  
*A Fast Projection Method for Connectivity Constraints in Image Segmentation*,  

R. Mecca, E. Rodola and D. Cremers,  
*Analysis of Surface Parametrizations for Modern Photometric Stereo Modeling*,  
*International Conference on Quality Control by Artificial Vision (QCAV)*, 2015.

F. Bergamasco, A. Albarelli, L. Cosmo, A. Torsello, E. Rodola and D. Cremers,  
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*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015.

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

*Using Diffusion and Structural MRI for the Automated Segmentation of Multiple Sclerosis Lesions*,  

M.I. Menzel, T. Sprenger, E.T. Tan, V. Golkov, C.J. Hardy, L. Marinelli and J.I. Sperl,  
*Robustness of Phase Sensitive Reconstruction in Diffusion Spectrum Imaging*,  

A. Menini, V. Golkov and F. Wiesinger,  
*Free-Breathing, Self-Navigated RUFIS Lung Imaging with Motion Compensated Image Reconstruction*,  

*q-Space Deep Learning for Twelve-Fold Shorter and Model-Free Diffusion MRI Scans*,  

A. Dosovitskiy, P. Fischer, E. Ilg, P. Haeusser, C. Hazirbas, V. Golkov, P. van der Smagt, D. Cremers and T. Brox,  
*FlowNet: Learning Optical Flow with Convolutional Networks*,  
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SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports,

[C147] D. Holz, A. Topalidou-Kyniazopoulou, J. Stueckler and S. Behnke,
Real-Time Object Detection, Localization and Verification for Fast Robotic Depalletizing,

[C148] J. Engel, J. Stueckler and D. Cremers,
Large-Scale Direct SLAM with Stereo Cameras,

[C149] D. Caruso, J. Engel and D. Cremers,
Large-Scale Direct SLAM for Omnidirectional Cameras,

[C150] Y. Tao, R. Triebel and D. Cremers,
Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams,

[C151] R. Maier, J. Stueckler and D. Cremers,
Super-Resolution Keyframe Fusion for 3D Modeling with High-Quality Textures,
International Conference on 3D Vision (3DV), October 2015.

[C152] V. Usenko, J. Engel, J. Stueckler and D. Cremers,
Reconstructing Street-Scenes in Real-Time From a Driving Car,

[C153] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers,
Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images,

[C154] E. Rodola, M. Moeller and D. Cremers,
Point-wise Map Recovery and Refinement from Functional Correspondence,
Proceedings Vision, Modeling and Visualization (VMV), Aachen, Germany, 2015, Received the Best Paper Award.

[C155] C. Kerl, J. Stueckler and D. Cremers,
Dense Continuous-Time Tracking and Mapping with Rolling Shutter RGB-D Cameras,
IEEE International Conference on Computer Vision (ICCV), Santiago, Chile, 2015.

[C156] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
Entropy Minimization for Convex Relaxation Approaches,
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[C157] F. Stark, C. Hazirbas, R. Triebel and D. Cremers,
**CAPTCHA Recognition with Active Deep Learning,**
*GCPR Workshop on New Challenges in Neural Computation*, Aachen, Germany, 2015.

[C158] N. Nagaraja, F. R. Schmidt and T. Brox,
**Video Segmentation with Just a Few Strokes,**
*IEEE International Conference on Computer Vision (ICCV)*, Santiago, Chile, Dec 2015.

[C159] J. Stühmer, S. Nowozin, A. Fitzgibbon, R. Szeliski, T. Perry, S. Acharya, D. Cremers and J. Shotton,
**Model-Based Tracking at 300Hz using Raw Time-of-Flight Observations,**
*IEEE International Conference on Computer Vision (ICCV)*, Santiago, Chile, 2015.

**Novel Acquisition Scheme for Diffusion Kurtosis Imaging Based on Compressed-Sensing Accelerated DSI Yielding Superior Image Quality,**

**Total Variation-Regularized Compressed Sensing Reconstruction for Multi-Shell Diffusion Kurtosis Imaging,**

**Direct Reconstruction of the Average Diffusion Propagator with Simultaneous Compressed-Sensing-Accelerated Diffusion Spectrum Imaging and Image Denoising by Means of Total Generalized Variation Regularization,**

[C163] V. Golkov, M.I. Menzel, T. Sprenger, A. Haase, D. Cremers and J.I. Sperl,
**Semi-Joint Reconstruction for Diffusion MRI Denoising Imposing Similarity of Edges in Similar Diffusion-Weighted Images,**

**Improved Diffusion Kurtosis Imaging and Direct Propagator Estimation Using 6-D Compressed Sensing,**

[C165] D. B. AD. CJ. C D. Weikersdorfer,
**Event-based 3D SLAM with a depth-augmented dynamic vision sensor,**

[C166] F. Steinbruecker, J. Sturm and D. Cremers,
**Volumetric 3D Mapping in Real-Time on a CPU,**

[C167] E. Rodola, S. R Bulo, T. Windheuser, M. Vestner and D. Cremers,
**Dense Non-Rigid Shape Correspondence Using Random Forests,**
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2014.
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[C168] Y. Kee, M. Souiai, D. Cremers and J. Kim,
Sequential Convex Relaxation for Mutual-Information-Based Unsupervised Figure-Ground Segmentation,

[C169] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers,
Collision Avoidance for Quadrotors with a Monocular Camera,

[C170] J. Engel, T. Schöps and D. Cremers,
LSD-SLAM: Large-Scale Direct Monocular SLAM,
European Conference on Computer Vision (ECCV), September 2014, Oral Presentation.

[C171] T. Schöps, J. Engel and D. Cremers,
Semi-Dense Visual Odometry for AR on a Smartphone,
International Symposium on Mixed and Augmented Reality, September 2014, Best Short Paper Award.

[C172] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers,
Optimal Intrinsic Descriptors for Non-Rigid Shape Analysis,
British Machine Vision Conference (BMVC), 2014.

[C173] M. Strobel, J. Diebold and D. Cremers,
Flow and Color Inpainting for Video Completion,
German Conference on Pattern Recognition (GCPR), Münster, Germany, September 2014, Oral Presentation.

[C174] R. Maier, J. Sturm and D. Cremers,
Submap-based Bundle Adjustment for 3D Reconstruction from RGB-D Data,
German Conference on Pattern Recognition (GCPR), Münster, Germany, September 2014, Oral Presentation.

[C175] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers,
Spatial and Temporal Interpolation of Multi-View Image Sequences,
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[C176] M. R. Oswald and D. Cremers,
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[C177] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers,
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[C178] M. R. Oswald, J. Stühmer and D. Cremers,
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[C179] E. Strekalovskiy and D. Cremers,
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,

33
[C180] A. Kanezaki, E. Rodola and T. Harada,
RGB-D gazou kara no buttai kenshutsu ni okeru taiou tenshuugou ruijido no gakushuu,

[C181] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
[Taiou tenshuugou ruijido gakushuu wo mochiita goutai-higoutai buttai kenshutsu],

[C182] M. Andreux, E. Rodola, M. Aubry and D. Cremers,
Anisotropic Laplace-Beltrami Operators for Shape Analysis,
Sixth Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment (NOR-DIA), 2014.

[C183] O. Dunkley, J. Engel, J. Sturm and D. Cremers,
Visual-Inertial Navigation for a Camera-Equipped 25g Nano-Quadrotor,

[C184] R. Triebel, J. Stühmer, M. Souiai and D. Cremers,
Active Online Learning for Interactive Segmentation Using Sparse Gaussian Processes,
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[C185] S. Debnath, S. S. Baishya, R. Triebel, V. Dutt and D. Cremers,
Environment-adaptive Learning: How Clustering Helps to Obtain Good Training Data,

[C186] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
Learning Similarities for Rigid and Non-Rigid Object Detection,
International Conference on 3D Vision (3DV), 2014.

[C187] D. Bender, M. Schikora, J. Sturm and D. Cremers,
INS-Camera Calibration without Ground Control Points,
9th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), 2014.

[C188] C. Kerl, M. Souiai, J. Sturm and D. Cremers,
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras,
International Conference on 3D Vision (3DV), 2014.

[C189] J. Stueckler and S. Behnke,
Adaptive Tool-Use Strategies for Anthropomorphic Service Robots,

[C190] D. Droeschel, J. Stueckler and S. Behnke,
Local Multi-Resolution Surfel Grids for MAV Motion Estimation and 3D Mapping,
[C191] J. Stueckler, A. Gutt and S. Behnke,  
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[C192] J. Stueckler and S. Behnke,  
Efficient deformable registration of multi-resolution surfel maps for object manipulation skill transfer,  

[C193] D. Droeschel, J. Stueckler and S. Behnke,  
Local multi-resolution representation for 6D motion estimation and mapping with a continuously rotating 3D laser scanner,  
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[C194] M. Schwarz, J. Stueckler and S. Behnke,  
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[C195] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,  
Dense Elastic 3D Shape Matching,  

[C196] J Bergbauer and S Tari,  
Wimmelbild Analysis with Approximate Curvature Coding Distance Images,  

[C197] J Bergbauer and S Tari,  
Top-down visual search in Wimmelbild,  

[C198] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,  
Can a fully unconstrained imaging model be applied effectively to central cameras?,  

[C199] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,  
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[C200] J. Bergbauer, C. Nieuwenhuis, M. Souiai and D. Cremers,  
Proximity Priors for Variational Semantic Segmentation and Recognition,  
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[C201] V. Golkov, T. Sprenger, A. Menini, M.I. Menzel, D. Cremers and J.I. Sperl,
Effects of Low-Rank Constraints, Line-Process Denoising, and q-Space Compressed Sensing on Diffusion MR Image Reconstruction and Kurtosis Tensor Estimation,

[C202] V. Golkov, T. Sprenger, M.I. Menzel, D. Cremers and J.I. Sperl,
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[C203] V. Golkov, M.I. Menzel, T. Sprenger, A. Menini, D. Cremers and J.I. Sperl,
Reconstruction, Regularization, and Quality in Diffusion MRI Using the Example of Accelerated Diffusion Spectrum Imaging,
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[C204] V. Golkov, M.I. Menzel, T. Sprenger, A. Menini, D. Cremers and J.I. Sperl,
Corrected Joint SENSE Reconstruction, Low-Rank Constraints, and Compressed-Sensing-Accelerated Diffusion Spectrum Imaging in Denoising and Kurtosis Tensor Estimation,
ISMRM Workshop on Diffusion as a Probe of Neural Tissue Microstructure, 2013.

SNR-dependent Quality Assessment of Compressed-Sensing-Accelerated Diffusion Spectrum Imaging Using a Fiber Crossing Phantom,

Phase Sensitive Reconstruction in Diffusion Spectrum Imaging Enabling Velocity Encoding and Unbiased Noise Distribution,

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[C208] C. Kerl, J. Sturm and D. Cremers,
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[C209] E. Toeppe, C. Nieuwenhuis and D. Cremers,
Volume Constraints for Single View Reconstruction,
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Toward Automated Driving in Cities using Close-to-Market Sensors,

[C211] H. Grimmett, R. Paul, R. Triebel and I. Posner,
Knowing When We Don’t Know: Introspective Classification for Mission-Critical Decision Making,

[C212] A. SD. C. D. Weikersdorfer,
Depth-adaptive Supervoxels for RGB-D Video Segmentation,

[C213] R. Triebel, H. Grimmett and I. Posner,
Confidence Boosting: Improving the Introspectiveness of a Boosted Classifier for Efficient Learning,

Introspective Active Learning for Scalable Semantic Mapping,

[C215] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,

[C216] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Direct Camera Pose Tracking and Mapping With Signed Distance Functions,
*Demo Track of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at the Robotics: Science and Systems Conference (RSS)*, June 2013.

[C217] J. Sturm and W. Burgard,
Learning Probabilistic Models for Mobile Manipulation Robots,
*Proc. of the International Joint Conference on Artificial Intelligence (IJCAI)*, Track on Best papers in Sister Conferences, 2013.

[C218] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
A Co-occurrence Prior for Continuous Multi-Label Optimization,

[C219] F. Stangl, M. Souiai and D. Cremers,
Performance Evaluation of Narrow Band Methods for Variational Stereo,
*35th German Conference on Pattern Recognition (GCPR)*, 2013.
T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,
Efficient Convex Optimization for Minimal Partition Problems with Volume Constraints,

C. Kerl, J. Sturm and D. Cremers,
Dense Visual SLAM for RGB-D Cameras,

T. Naseer, J. Sturm and D. Cremers,
FollowMe: Person Following and Gesture Recognition with a Quadrocopter,

M. Klodt, J. Sturm and D. Cremers,
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J. Sturm, E. Bylow, F. Kahl and D. Cremers,
Dense Tracking and Mapping with a Quadrocopter,
_Unmanned Aerial Vehicle in Geomatics (UAV-g)_ Rostock, Germany, September 2013.

D. Bender, M. Schikora, J. Sturm and D. Cremers,
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_Unmanned Aerial Vehicle in Geomatics (UAV-g)_ Rostock, Germany, September 2013, Best research paper award.

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CopyMe3D: Scanning and Printing Persons in 3D,
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Efficient Shape Matching using Vector Extrapolation,
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Semi-Dense Visual Odometry for a Monocular Camera,
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E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,
Elastic Net Constraints for Shape Matching,
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J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
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*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

[C232] J. Stühmer, P. Schröder and D. Cremers,
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*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013, Oral Presentation.

[C233] G. Kuschk and D. Cremers,
Fast and Accurate Large-scale Stereo Reconstruction using Variational Methods,
*ICCV Workshop on Big Data in 3D Computer Vision*, Sydney, Australia, December 2013.

[C234] M. R. Oswald and D. Cremers,
A Convex Relaxation Approach to Space Time Multi-view 3D Reconstruction,
*ICCV Workshop on Dynamic Shape Capture and Analysis (4DMOD)*, 2013.

[C235] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, 2013.

[C236] T. Naseer, J. Sturm and D. Cremers,
Interactive Person Following and Gesture Recognition with a Flying Robot,
Proc. of the Assistance and Service Robotics Workshop (ASROB) at the IEEE. Int. Conf. on Intelligent Robots and Systems (IROS), Nov. 2013.

Driven Learning for Driving: How Introspection Improves Semantic Mapping,
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[C238] D. Cremers, E. Rodola and T. Windheuser,
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[C239] M. Schadler, J. Stueckler and S. Behnke,
Multi-resolution surfel mapping and real-time pose tracking using a continuously rotating 2D laser scanner,

[C240] J. Stueckler and S. Behnke,
Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,

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Joint detection and pose tracking of multi-resolution surfel models in RGB-D,
[C242] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke, 
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[C243] A. Berner, J Li, D. Holz, J. Stueckler, S. Behnke and R. Klein,
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[C244] J. Stueckler and S. Behnke,
Hierarchical Object Discovery and Dense Modelling From Motion Cues in RGB-D Video,

[C245] M. Nieuwenhuisen, D. Droeschel, D. Holz, J. Stueckler, A. Berner, J Li, R. Klein and S. Behnke,
Mobile bin picking with an anthropomorphic service robot,

[C246] L. Gorelick, F. R. Schmidt and Y. Boykov,
Fast Trust Region for Segmentation,

[C247] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald,
Planar simplification and texturing of dense point cloud maps,

[C248] E. Rodola, A.M. Bronstein, A. Albarelli, F. Bergamasco and A. Torsello,
A game-theoretic approach to deformable shape matching,

[C249] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
An Evaluation of the RGB-D SLAM System,

[C250] T. Ruehr, J. Sturm, D. Pangercic, M. Beetz and D. Cremers,
A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,

[C251] D Joho, GD Tipaldi, N Engelhard, C Stachniss and W Burgard,
Nonparametric Bayesian Models for Unsupervised Scene Analysis and Reconstruction,

[C252] M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit,
Box-Particle Intensity Filter,
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[C253] M. Schikora, A. Gning, L. Mihaylova, D. Cremers and W. Koch,
Box-Particle PHD Filter for Multi-Target Tracking,
15th International Conference on Information Fusion (FUSION), Singapore, July 2012.

[C254] L. Zhang, J. Sturm, D. Cremers and D. Lee,
Real-Time Human Motion Tracking using Multiple Depth Cameras,

[C255] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Nonmetric Priors for Continuous Multilabel Optimization,

[C256] T. Windheuser, H. Ishikawa and D. Cremers,
Generalized Roof Duality for Multi-Label Optimization: Optimal Lower Bounds and Persistency,
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[C257] T. Windheuser, H. Ishikawa and D. Cremers,
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Meeting on Image Recognition and Understanding, Fukuoka, Japan, aug 2012.

[C258] M. R. Oswald, E. Toeppe and D. Cremers,
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[C259] E. Strekalovskiy, A. Chambolle and D. Cremers,
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[C260] J. Engel, J. Sturm and D. Cremers,
Camera-Based Navigation of a Low-Cost Quadrocopter,

[C261] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
A Benchmark for the Evaluation of RGB-D SLAM Systems,

[C262] J. Engel, J. Sturm and D. Cremers,
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing,

[C263] J. Sturm, W. Burgard and D. Cremers,
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[C286] T. Windheuser, U. Schlickewei, F. R. Schmidt and D. Cremers,
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[C287] M. Aubry, U. Schlickewei and D. Cremers,
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[C288] T. Schoenemann, S. Masnou and D. Cremers,
On a linear programming approach to the discrete Willmore boundary value problem and generalizations,

[C289] E. Strekalovskiy and D. Cremers,
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[C290] B. Goldluecke and D. Cremers,
Introducing Total Curvature for Image Processing,
IEEE International Conference on Computer Vision (ICCV), 2011.

[C291] E. Strekalovskiy, B. Goldluecke and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling Problems,
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[C292] M. Aubry, K. Kolev, B. Goldluecke and D. Cremers,
Decoupling Photometry and Geometry in Dense Variational Camera Calibration,
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[C293] E. Strekalovskiy and D. Cremers,
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[C294] J. Hess, J. Sturm and W. Burgard,
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Proc. of the Workshop on Manipulation under Uncertainty at the IEEE Int. Conf. on Robotics and Automation (ICRA), Shanghai, China, May 2011.

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[C297] C. Nieuwenhuis, E. Toeppe and D. Cremers,
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[C298] M. Klodt and D. Cremers,
A Convex Framework for Image Segmentation with Moment Constraints,
IEEE International Conference on Computer Vision (ICCV), 2011.

[C299] M. Aubry, U. Schlickewei and D. Cremers,
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[C300] F. Steinbruecker, J. Sturm and D. Cremers,
Real-Time Visual Odometry from Dense RGB-D Images,
Workshop on Live Dense Reconstruction with Moving Cameras at the Intl. Conf. on Computer Vision (ICCV), 2011.

Mobile Manipulation of Kitchen Containers,
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[C302] M. Schikora, M.Oispuu, W. Koch and D. Cremers,
Multiple Source Localization Based on Biased Bearings Using the Intensity Filter - Approach and Experimental Results,

[C303] S. Madhogaria, M. Schikora, W. Koch and D. Cremers,
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6th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), Berlin, Germany, September 2011.

[C304] M. Schikora, W. Koch, R.L. Streit and D. Cremers,
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[C305] M. Oispuu and M. Schikora,
Multiple Emitter Localization Using a Realistic Airborne Array Sensor,
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[C306] M. Schikora, W. Koch and D. Cremers,
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Silhouette-Based Variational Methods for Single View Reconstruction,
D. Cremers, M. A. Magnor, M. R. Oswald and L. Zelnik-Manor(Eds.), Proceedings of
the 2010 international conference on Video Processing and Computational Video, Berlin,

[C308] M. R. Oswald, E. Toeppe, C. Nieuwenhuis and D. Cremers,
A Survey on Geometry Recovery from a Single Image with Focus on Curved
Object Reconstruction,
Proceedings of the 2011 Conference on Innovations for Shape Analysis: Models and Algo-
rithms, Springer-Verlag, 2011.

[C309] J. Shin, R. Triebel and R. Siegwart,
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[C310] J. Maye, R. Triebel, L. Spinello and R. Siegwart,
Bayesian On-line Learning of Driving Behaviors,

[C311] B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke,
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Jeschke, Sabina, Liu, Honghai, Schilberg and Daniel(Eds.), Proc. of the Int. Conf. on
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ation Tasks.,
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Röfer, Thomas, Mayer, Norbert Michael, Savage, Jesus, Saranli and Uluc(Eds.), RoboCup,

[C315] D. Droeschel, J. Stueckler, D. Holz and S. Behnke,
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gesture recognition using Time-of-Flight cameras,
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[C316] J. Stueckler and S. Behnke,
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[C317] D. Droeschel, J. Stueckler and S. Behnke,
Learning to Interpret Pointing Gestures with a Time-of-flight Camera,
Proceedings of the 6th International Conference on Human-robot Interaction, Advances in
[C318] F. R. Schmidt, H. Ackermann and B. Rosenhahn,  
Multilinear Model Estimation with L2-Regularization,  

[C319] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,  
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[C320] A. Albarelli, E. Rodola and A. Torsello,  
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[C321] E. Rodola, A. Albarelli and A. Torsello,  
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[C322] A. Albarelli, E. Rodola, A. Cavallarin and A. Torsello,  
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[C323] E. Rodola, A. Albarelli and A. Torsello,  
A Game-Theoretic Approach to the Enforcement of Global Consistency in Multi-View Feature Matching,  

[C324] A. Albarelli, E. Rodola and A. Torsello,  
A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation,  

[C325] A. Albarelli, E. Rodola and A. Torsello,  
Robust Game-Theoretic Inlier Selection for Bundle Adjustment,  
*5th International Symposium on 3D Data Processing, Visualization and Transmission (3DPVT)*, 2010, Best Student Paper Award.

[C326] A. Albarelli, E. Rodola and A. Torsello,  
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[C327] M. Schikora, A. Schikora, K.-H. Kogel, W. Koch and D. Cremers,  
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*5th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF)*, Leipzig, Germany, September 2010.

[C328] M. Schikora, D. Bender, D. Cremers and W. Koch,  
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M. Schikora, D. Bender, W. Koch and D. Cremers,
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S. Chitta, M. Piccoli and J. Sturm,
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Operating Articulated Objects Based on Experience,

[C341] R. Kaestner, N. Engelhard, R. Triebel and R. Siegwart,
A Bayesian Approach to Learning 3D Representations of Dynamic Environments,

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