2019
Journal Articles
[J1] Thomas Frerix, Matthias Niesner and Daniel Cremers,
Linear Inequality Constraints for Neural Network Activations,

Conference and Workshop Papers
[C1] P. Swazinna, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
Negative-Unlabeled Learning for Diffusion MRI,
2019.

2018
Journal Articles
[J1] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,
March 2018.

[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., Durix, B., Wu, T., Cremers, D., Lauze, F., Durou and J.-D.,
LED-based Photometric Stereo: Modeling, Calibration and Numerical Solution,

[J4] Haefner, B., Peng, S., Verma, A., Queau, Y., Cremers and D.,
Photometric Depth Super-Resolution,
Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

[J5] Melou, J., Queau, Y., Durou, J.-D., Castan, F., Cremers and D.,
Variational Reflectance Estimation from Multi-view Images,

[J6] 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,

[J8] L. Ma, J. Stueckler, T. Wu and D. Cremers,
Detailed Dense Inference with Convolutional Neural Networks via Discrete Wavelet Transform,
Aug 2018.
Author: Cremers  
List of Publications

[J9] Tjaden, Henning, Schwanecke, Ulrich, Schömer, Elmar, Cremers and Daniel,  
A Region-based Gauss-Newton Approach to Real-Time Monocular Multiple  
Object Tracking,  

Conference and Workshop Papers

[C1] Caner Hazirbas, Sebastian Georg Soyer, Maximilian Christian Staab, Laura Leal-Taixe  
and Daniel Cremers,  
Asian Conference on Computer Vision (ACCV), December 2018.

[C2] T. Möllenhoff, Z. Ye, T. Wu and D. Cremers,  
Combinatorial Preconditioners for Proximal Algorithms on Graphs,  
International Conference on Artificial Intelligence and Statistics (AISTATS), 2018.

[C3] V. Golkov, A. Vasilev, F. Pasa, I. Lipp, W. Boubaker, E. Sgarlata, F. Pfeiffer, V. Tomassini,  
D. K. Jones and D. Cremers,  
q-Space Novelty Detection in Short Diffusion MRI Scans of Multiple Sclerosis, 2018.

Pasa, F. Pfeiffer, G. J. Biessels, A. Leemans and D. Cremers,  
q-Space Deep Learning for Alzheimer’s Disease Diagnosis: Global Prediction  
and Weakly-Supervised Localization, 2018.

[C5] B. T. Do, V. Golkov, G. E. Gürel and D. Cremers,  
Precursor microRNA Identification Using Deep Convolutional Neural Networks,  

[C6] E. Aljalbout, V. Golkov, Y. Siddiqui and D. Cremers,  
Clustering with Deep Learning: Taxonomy and New Methods,  

[C7] P. Haeusser, J. Plapp, V. Golkov, E. Aljalbout and D. Cremers,  
Associative Deep Clustering - Training a Classification Network with no Labels,  
Proc. of the German Conference on Pattern Recognition (GCPR), October 2018.

[C8] Nikolaus Mayer, Eddy Ilg, Philipp Fischer, Caner Hazirbas, Daniel Cremers, Alexey Do-  
sovitskiy and Thomas Brox,  
What Makes Good Synthetic Training Data for Learning Disparity and Optical Flow Estimation?,  
September 2018.

[C9] T. Frerix, T. Möllenhoff, M. Moeller and D. Cremers,  
Proximal Backpropagation,  

and D. Cremers,  
Discrete-Continuous ADMM for Transductive Inference in Higher-Order MRFs,  
2018.
[C11] L. von Stumberg, V. Usenko and D. Cremers, 
Direct Sparse Visual-Inertial Odometry using Dynamic Marginalization, 
May 2018.

The TUM VI Benchmark for Evaluating Visual-Inertial Odometry, 
October 2018.

[C13] X. Gao, R. Wang, N. Demmel and D. Cremers, 
LDSO: Direct Sparse Odometry with Loop Closure, 
iros, October 2018.

[C14] A. Vasilev, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers, 
q-Space Novelty Detection with Variational Autoencoders, 

[C15] M. Eisenberger, Z. Lähner and D. Cremers, 
Divergence-Free Shape Interpolation and Correspondence, 

[C16] Z. Lähner, D. Cremers and T. Tung, 
DeepWrinkles: Accurate and Realistic Clothing Modeling, 
September 2018, Oral Presentation.

[C17] N. Yang, R. Wang, J. Stueckler and D. Cremers, 
Deep Virtual Stereo Odometry: Leveraging Deep Depth Prediction for Monocular Direct Sparse Odometry, 
eccv, September 2018, Oral Presentation.

[C18] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers, 
Direct Sparse Odometry With Rolling Shutter, 
September 2018, Oral Presentation.

[C19] V. Usenko, N. Demmel and D. Cremers, 
The Double Sphere Camera Model, 

[C20] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel, 
Incremental Semi-Supervised Learning from Streams for Object Classification, 

[C21] V. Estellers, F. Schmidt and D. Cremers, 
Robust Fitting of Subdivision Surfaces for Smooth Shape Analysis, 
Proc. of the Int. Conference on 3D Vision (3DV), September 2018, Received the Best Paper Award at 3DV 2018.

[C22] P. Wenzel, Q. Khan, D. Cremers and L. Leal-Taixe, 
Modular Vehicle Control for Transferring Semantic Information Between Weather Conditions Using GANs, 
Conference on Robot Learning (CoRL), 2018.

[C23] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D., 
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading, 
2017

Journal Articles


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[C10] Queau, Y., Pizenberg, M., Durou, J.-D., Cremers and D.,
Microgeometry capture and RGB albedo estimation by photometric stereo
without demosaicing,

[C11] P. Haeusser, A. Mordvintsev and D. Cremers,
Learning by Association - A versatile semi-supervised training method for
neural networks,
2017.

[C12] Miroslava Slavcheva, Maximilian Baust, Daniel Cremers and Slobodan Ilic,
*KillingFusion: Non-rigid 3D Reconstruction without Correspondences*,
2017.

[C13] V. Usenko, L. von Stumberg, A. Pangercic and D. Cremers,
*Real-Time Trajectory Replanning for MAVs using Uniform B-splines and a
3D Circular Buffer*,
Vancouver, Canada, Sep 2017, *Best Paper Award - Finalist*.

[C14] Queau, Y., Wu, T., Cremers and D.,
*Semi-Calibrated Near-Light Photometric Stereo*,
*International Conference on Scale Space and Variational Methods in Computer Vision

[C15] Melou, J., Queau, Y., Durou, J.-D., Castan, F., Cremers and D,
*Beyond Multi-view Stereo: Shading-Reflectance Decomposition*,
*International Conference on Scale Space and Variational Methods in Computer Vision

[C16] Queau, Y., Wu, T., Lauze, F., Durou, J.-D., Cremers and D.,
*A Non-Convex Variational Approach to Photometric Stereo under Inaccurate
Lighting*,
Honolulu, USA, 2017.

[C17] Tim Meinhardt, Michael Moeller, Caner Hazirbas and Daniel Cremers,
*Learning Proximal Operators: Using Denoising Networks for Regularizing Inverse Imaging Problems*,
October 2017.

*One-Shot Video Object Segmentation*,
Honolulu, USA, 2017.

[C19] Queau, Y., Melou, J., Durou, J.-D., Cremers and D.,
*Dense Multi-view 3D-reconstruction Without Dense Correspondences*,

[C20] P. Haesuser, T. Frerix, A. Mordvintsev and D. Cremers,
*Associative Domain Adaptation*,
2017.

[C21] Queau, Y., Pizenberg, M., Cremers, D., Durou and J.-D.,
*Stereophotometrie microscopique sans demosaicing*,
*GRETSI*, Juan-les-Pins, USA, 2017.
Efficient Deformable Shape Correspondence via Kernel Matching, 
International Conference on 3D Vision (3DV), Qingdao, China, October 2017, Oral Presentation.

[C23] Maier, R., Schaller, R., Cremers and D., 
Efficient Online Surface Correction for Real-time Large-Scale 3D Reconstruction, 
British Machine Vision Conference (BMVC), London, United Kingdom, September 2017.

[C24] Maier, R., Kim, K., Cremers, D., Kautz and J., 
Intrinsic3D: High-Quality 3D Reconstruction by Joint Appearance and Geometry Optimization with Spatially-Varying Lighting, 
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[C25] R. Wang, M. Schwörer and D. Cremers, 
Stereo DSO: Large-Scale Direct Sparse Visual Odometry with Stereo Cameras, 
International Conference on Computer Vision (ICCV), Venice, Italy, October 2017.

[C26] T. Möllenhoff and D. Cremers, 
Sublabel-Accurate Discretization of Nonconvex Free-Discontinuity Problems, 
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[C27] Queau, Y., Melou, J., Castan, F., Cremers, D., Durou and J.-D., 
A Variational Approach to Shape-from-shading Under Natural Illumination, 

[C28] F. Bernard, F. R. Schmidt, J. Thunberg and D. Cremers, 
A Combinatorial Solution to Non-Rigid 3D Shape-to-Image Matching, 

[C29] J. Kukacka, V. Golkov and D. Cremers, 
Regularization for Deep Learning: A Taxonomy, 

[C30] Peng, S., Haefner, B., Queau, Y., Cremers and D., 
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.

2016
Journal Articles

[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, 


**Book Chapters**


**Conference and Workshop Papers**


2015 Journal Articles

[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. Töpfer 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. Strelkovskiy, M. Möller and D. Cremers,  
The Primal-Dual Hybrid Gradient Method for Semiconvex Splittings,  

Book Chapters

[BC1] V. Golkov, J. M. Portegies, A. Golkov, R. Duits and D. Cremers,  
Holistic Image Reconstruction for Diffusion MRI,  
Computational Diffusion MRI, Munich, Germany, Springer, October 2015, Book Chapter, and Oral Presentation at MICCAI 2015 Workshop on Computational Diffusion MRI.

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[C1] M. Moeller, J. Diebold, G. Gilboa and D. Cremers,  
Learning Nonlinear Spectral Filters for Color Image Reconstruction,  
2015.

[C2] J. Diebold, N. Demmel, C. Hazirbas, M. Möller and D. Cremers,  
Interactive Multi-label Segmentation of RGB-D Images,  
2015.

[C3] C. Hazirbas, J. Diebold and D. Cremers,  
Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Segmentation,  
2015, Oral Presentation.

[C4] T. Möllenhoff, E. Strelkovskiy, M. Möller and D. Cremers,  
Low Rank Priors for Color Image Regularization,  
2015.

[C5] 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.
[C6] J. Stühmer and D. Cremers,
A Fast Projection Method for Connectivity Constraints in Image Segmentation,
X.-C. Tai, E. Bae, T. F. Chan and M. Lysaker (Eds.), 2015.

[C7] 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.

[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,
2015.

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

P. A. Gomez, A. Haase, T. Brox and D. Cremers,
q-Space Deep Learning for Twelve-Fold Shorter and Model-Free Diffusion MRI Scans,
Munich, Germany, October 2015.

[C11] 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,
December 2015.

V. Evers, M. Fiore, H. Hung, O. A. Islas Ramirez, M. Joosse, H. Kambhaita, T. Kucner,
B. Leibe, A. J. Lilienthal, T. Linder, M. Lohse, M. Magnusson, B. Okal, L. Palmieri, U. Rafi,
M. van Rooij and L. Zhang,
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[C13] J. Engel, J. Stueckler and D. Cremers,
Large-Scale Direct SLAM with Stereo Cameras,
2015.

[C14] D. Caruso, J. Engel and D. Cremers,
Large-Scale Direct SLAM for Omnidirectional Cameras,
2015.

[C15] Y. Tao, R. Triebel and D. Cremers,
Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams,
2015.

[C16] R. Maier, J. Stueckler and D. Cremers,
Super-Resolution Keyframe Fusion for 3D Modeling with High-Quality Textures,
International Conference on 3D Vision (3DV), 2015.
Author: Cremers

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[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,
Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images,

[C19] E. Rodola, M. Moeller and D. Cremers,
Point-wise Map Recovery and Refinement from Functional Correspondence,
Received the Best Paper Award.

[C20] C. Kerl, J. Stueckler and D. Cremers,
Dense Continuous-Time Tracking and Mapping with Rolling Shutter RGB-D Cameras,
Santiago, Chile, 2015.

[C21] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
Enterity Minimization for Convex Relaxation Approaches,
Santiago, Chile, 2015.

[C22] F. Stark, C. Hazirbas, R. Triebel and D. Cremers,
CAPTCHA Recognition with Active Deep Learning,
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Model-Based Tracking at 300Hz using Raw Time-of-Flight Observations,
Santiago, Chile, 2015.

2014
Journal Articles

[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,

Books
Author: Cremers

List of Publications

[B1] D. Cremers, I. Reid, H. Saito and M.-S. Yang (Editors),
Computer Vision: ACCV 2014,
Springer 2014.

Book Chapters

Joint Super-Resolution Using Only One Anisotropic Low-Resolution Image per q-Space Coordinate,
Computational Diffusion MRI, Springer, 2014, Book Chapter, and Oral Presentation at MICCAI 2014 Workshop on Computational Diffusion MRI.

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[C4] D. Weikersdorfer, D. B. Adrian, D. Cremers and J. Conrad,
Event-based 3D SLAM with a depth-augmented dynamic vision sensor, 2014.

[C5] F. Steinbruecker, J. Sturm and D. Cremers,
Volumetric 3D Mapping in Real-Time on a CPU, Hongkong, China, 2014.

[C6] E. Rodola, S. Rota Bulo, T. Windheuser, M. Vestner and D. Cremers,
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[C7] Y. Kee, M. Souiai, D. Cremers and J. Kim,
Sequential Convex Relaxation for Mutual-Information-Based Unsupervised Figure-Ground Segmentation, 2014.

[C8] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers,

[C9] J. Engel, T. Schöps and D. Cremers,
LSD-SLAM: Large-Scale Direct Monocular SLAM, September 2014, Oral Presentation.
[C10] T. Schöps, J. Engel and D. Cremers, 
Semi-Dense Visual Odometry for AR on a Smartphone, 
September 2014, Best Short Paper Award.

[C11] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers, 
Optimal Intrinsic Descriptors for Non-Rigid Shape Analysis, 
2014.

[C12] 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.

[C13] 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.

[C14] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers, 
Spatial and Temporal Interpolation of Multi-View Image Sequences, 
Münster, Germany, Vol. 36, September 2014.

[C15] M. R. Oswald and D. Cremers, 
Surface Normal Integration for Convex Space-time Multi-view Reconstruction, 
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[C16] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers, 
Co-Sparse Textural Similarity for Interactive Segmentation, 
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[C17] M. R. Oswald, J. Stühmer and D. Cremers, 
Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction, 

[C18] E. Strekalovskiy and D. Cremers, 
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional, 

[C19] A. Kanezaki, E. Rodola, D. Cremers and T. Harada, 
[Taiou tenshuugou ruijido gakushuu wo mochiita goutai-higoutai buttai kenshutsu], 

[C20] 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.

[C21] O. Dunkley, J. Engel, J. Sturm and D. Cremers, 
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[C22] R. Triebel, J. Stühmer, M. Souiai and D. Cremers, 
Active Online Learning for Interactive Segmentation Using Sparse Gaussian Processes, 
*German Conference on Pattern Recognition*, 2014.
[C23] S. Debnath, S. S. Baishya, R. Triebel, V. Dutt and D. Cremers,
Environment-adaptive Learning: How Clustering Helps to Obtain Good Training Data,

[C24] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
Learning Similarities for Rigid and Non-Rigid Object Detection,

[C25] D. Bender, M. Schikora, J. Sturm and D. Cremers,
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[C26] C. Kerl, M. Souiai, J. Sturm and D. Cremers,
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras,

[C27] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,
Dense Elastic 3D Shape Matching,

2013

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[J1] C. Nieuwenhuis and D. Cremers,
Spatially Varying Color Distributions for Interactive Multi-Label Segmentation,

[J2] C. Nieuwenhuis, E. Toeppe and D. Cremers,
A Survey and Comparison of Discrete and Continuous Multi-label Optimization Approaches for the Potts Model,

[J3] B. Goldluecke, E. Strekalovskiy and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling,

[J4] F. Endres, J. Hess, J. Sturm, D. Cremers and W. Burgard,
3D Mapping with an RGB-D Camera,

[J5] Liu, Z., Beetz, M., Cremers, D., Gall, J., Li, W., Pangercic, D., Sturm, J., Tai and Y.-W.,
Introduction to the special issue on visual understanding and applications with RGB-D cameras,

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[BC1] M. Klodt, F. Steinbruecker and D. Cremers,
Moment Constraints in Convex Optimization for Segmentation and Tracking,
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[C1] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Convex Optimization for Scene Understanding,
ICCV Workshop on Graphical Models for Scene Understanding, 2013.

[C2] J. Bergbauer, C. Nieuwenhuis, M. Souiai and D. Cremers,
Proximity Priors for Variational Semantic Segmentation and Recognition,
ICCV Workshop on Graphical Models for Scene Understanding, 2013.

[C3] 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,
2013, Oral Presentation.

Line-Process-Based Joint SENSE Reconstruction of Diffusion Images with Intensity Inhomogeneity Correction and Noise Non-Stationarity Correction,
2013, Certificate of Merit Award.

[C5] 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,
16th Annual Meeting of the German Chapter of the ISMRM, 2013, Oral Presentation.

[C6] 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,
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Noise Reduction in Accelerated Diffusion Spectrum Imaging through Integration of SENSE Reconstruction into Joint Reconstruction in Combination with q-Space Compressed Sensing,
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[C8] C. Kerl, J. Sturm and D. Cremers,
Robust Odometry Estimation for RGB-D Cameras,
May 2013, Best Vision Paper Award - Finalist.

[C9] E. Toepppe, C. Nieuwenhuis and D. Cremers,
Volume Constraints for Single View Reconstruction,
Portland, USA, 2013.

[C10] D. Weikersdorfer, A. Schick and D. Cremers,
Depth-adative Supervoxels for RGB-D Video Segmentation,
2013.

[C11] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,
Author: Cremers

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[C12] 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

[C13] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
A Co-occurrence Prior for Continuous Multi-Label Optimization,
2013.

[C14] F. Stangl, M. Souiai and D. Cremers,
Performance Evaluation of Narrow Band Methods for Variational Stereo,
35th German Conference on Pattern Recognition (GCPR), 2013.

[C15] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,
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Constraints,
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FollowMe: Person Following and Gesture Recognition with a Quadrocopter,

[C18] M. Klodt, J. Sturm and D. Cremers,
Scale-Aware Object Tracking with Convex Shape Constraints on RGB-D
Images,
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2013.

[C19] 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.

[C20] D. Bender, M. Schikora, J. Sturm and D. Cremers,
Graph-based bundle adjustment for INS-camera calibration,
Unmanned Aerial Vehicle in Geomatics (UAV-g), Rostock, Germany, September 2013, Best
research paper award.

[C21] J. Sturm, E. Bylow, F. Kahl and D. Cremers,
CopyMe3D: Scanning and Printing Persons in 3D,
German Conference on Pattern Recognition (GCPR), Saarbrücken, Germany, September
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[C22] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,
Efficient Shape Matching using Vector Extrapolation,
2013.

[C23] J. Engel, J. Sturm and D. Cremers,
Semi-Dense Visual Odometry for a Monocular Camera,
Sydney, Australia, December 2013.


**Technical Reports**


**2012 Journal Articles**

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