2019

Journal Articles

[J1] Thomas Frerix, Matthias Niesner and Daniel Cremers,
Linear Inequality Constraints for Neural Network Activations,
(preprint, 2019).

Conference and Workshop Papers

[C1] P. Swazinna, V. Golikov, 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.
[J9] Tjaden, Henning, Schwanecke, Ulrich, Schönner, 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 Net-
works,

[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 La-
beles,
*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

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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*,

[C15] Melou, J., Queau, Y., Durou, J.-D., Castan, F., Cremers and D,
*Beyond Multi-view Stereo: Shading-Reflectance Decomposition*,

[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. Haeusser, 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.


### 2016

**Journal Articles**


[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**,  
35: 2016, Special Issue on Deep Learning.

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

[J6] Vestner, M., Litman, R., Bronstein, A., Rodola, E., Cremers and D.,  
**Bayesian Inference of Bijective Non-Rigid Shape Correspondence**,  

Book Chapters

[BC1] Vestner, M., Rodola, E., Windheuser, T., Bulo, Rota Bulo, S., Cremers and D.,  
**Applying Random Forests to the Problem of Dense Non-rigid Shape Correspondence**,  

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[C1] N.Mayer, E.Ilg, P.Haeusser, 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**,  
Prague, Czech Republic, April 2016.

[C3] V. Golkov, M. J. Skwark, A. Golkov, A. Dosovitskiy, T. Brox, J. Meiler and D. Cremers,  
**Protein Contact Prediction from Amino Acid Co-Evolution Using Convolutional Networks for Graph-Valued Images**,  
Barcelona, Spain, December 2016, Oral Presentation (acceptance rate: under 2%).

[C4] Z. Lähner, E. Rodola, F. R. Schmidt, M. M. Bronstein and D. Cremers,  
**Efficient Globally Optimal 2D-to-3D Deformable Shape Matching**,  
May 2016.

[C5] V. Usenko, J. Engel, J. Stueckler and D. Cremers,  
**Direct Visual-Inertial Odometry with Stereo Cameras**,  
May 2016.

[C6] A. Narr, R. Triebel and D. Cremers,  
**Stream-based Active Learning for Efficient and Adaptive Classification of 3D Objects**,  
May 2016.
Author: Cremers

List of Publications

SHREC16: Matching of Deformable Shapes with Topological Noise,
May 2016.

[C8] L. Cosmo, E. Rodola, M. M. Bronstein, A. Torsello, D. Cremers and Y. Sahillioglu,
SHREC16: Partial Matching of Deformable Shapes,
May 2016.

[C9] T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers,
Sublabel-Accurate Relaxation of Nonconvex Energies,
2016, Oral Presentation, Received the Best Paper Honorable Mention Award at CVPR 2016.

[C10] L. Ma, C. Kerl, J. Stueckler and D. Cremers,
CPA-SLAM: Consistent Plane-Model Alignment for Direct RGB-D SLAM,
May 2016.

[C11] J. Engel, V. Usenko and D. Cremers,
A Photometrically Calibrated Benchmark For Monocular Visual Odometry,

[C12] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,

[C13] E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann and D. Cremers,
Sublabel-Accurate Convex Relaxation of Vectorial Multilabel Energies,
October 2016.

[C14] I. Chiotellis, R. Triebel, T. Windheuser and D. Cremers,
Non-Rigid 3D Shape Retrieval via Large Margin Nearest Neighbor Embedding,
October 2016.

[C15] C. Hazirbas, L. Ma, C. Domokos and D. Cremers,
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2016.

[C16] T. Windheuser and D. Cremers,
A Convex Solution to Spatially-Regularized Correspondence Problems,
October 2016.

[C17] S. Sharifzadeh, I. Chiotellis, R. Triebel and D. Cremers,
Learning to Drive using Inverse Reinforcement Learning and Deep Q-Networks,
NIPS Workshops, December 2016.

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Journal Articles

[J1] J. Diebold, C. Nieuwenhuis and D. Cremers,
Midrange Geometric Interactions for Semantic Segmentation,
2015.
[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. Strekalovskiy, 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.

**Conference and Workshop Papers**

[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. Strekalovskiy, 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.
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.

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,
Adopting an Unconstrained Ray Model in Light-field Cameras for 3D Shape Reconstruction,
2015.

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

q-Space Deep Learning for Twelve-Fold Shorter and Model-Free Diffusion MRI Scans,
Munich, Germany, October 2015.

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.

SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports,

J. Engel, J. Stueckler and D. Cremers,
Large-Scale Direct SLAM with Stereo Cameras,
2015.

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

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

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.
[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,
Aachen, Germany, 2015, 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,
Entropy Minimization for Convex Relaxation Approaches,
Santiago, Chile, 2015.

[C22] 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.

Model-Based Tracking at 300Hz using Raw Time-of-Flight Observations,
Santiago, Chile, 2015.

2014
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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,

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

Book Chapters

Haase and D. Cremers,
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.

Conference and Workshop Papers

Direct Reconstruction of the Average Diffusion Propagator with Simultaneous
Compressed-Sensing-Accelerated Diffusion Spectrum Imaging and Image De-
noising by Means of Total Generalized Variation Regularization,
2014.

Semi-Joint Reconstruction for Diffusion MRI Denoising Imposing Similarity
of Edges in Similar Diffusion-Weighted Images,
2014.

Improved Diffusion Kurtosis Imaging and Direct Propagator Estimation Using
6-D Compressed Sensing,
2014.

[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,
Dense Non-Rigid Shape Correspondence Using Random Forests,
2014.

[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,
Collision Avoidance for Quadrotors with a Monocular Camera,

[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*, 2014.

[C16] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers, 
*Co-Sparse Textural Similarity for Interactive Segmentation*, 2014.

[C17] M. R. Oswald, J. Stühmer and D. Cremers, 

[C18] E. Strekalovskiy and D. Cremers, 

[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 (NORDIA)*, 2014.

[C21] O. Dunkley, J. Engel, J. Sturm and D. Cremers, 
*Visual-Inertial Navigation for a Camera-Equipped 25g Nano-Quadrotor*, 

[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.


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Conference and Workshop Papers


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.

M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,

F. Stangl, M. Souiai and D. Cremers,
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T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,

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,
Scale-Aware Object Tracking with Convex Shape Constraints on RGB-D Images,
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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,
Graph-based bundle adjustment for INS-camera calibration,
Unmanned Aerial Vehicle in Geomatics (UAV-g), Rostock, Germany, September 2013, Best research paper award.

J. Sturm, E. Bylow, F. Kahl and D. Cremers,
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German Conference on Pattern Recognition (GCPR), Saarbrücken, Germany, September 2013.

E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,

J. Engel, J. Sturm and D. Cremers,
Semi-Dense Visual Odometry for a Monocular Camera,
Sydney, Australia, December 2013.
[C24] E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,
Elastic Net Constraints for Shape Matching,
Sydney, Australia, December 2013.

[C25] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
Total Variation Regularization for Functions with Values in a Manifold,
Sydney, Australia, December 2013.

[C26] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Proportion Priors for Image Sequence Segmentation,
Sydney, Australia, December 2013.

[C27] J. Stühmer, P. Schröder and D. Cremers,
Tree Shape Priors with Connectivity Constraints using Convex Relaxation on General Graphs,
Sydney, Australia, December 2013, Oral Presentation.

[C28] 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.

[C29] M. R. Oswald and D. Cremers,
A Convex Relaxation Approach to Space Time Multi-view 3D Reconstruction,
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[C30] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
Sydney, Australia, 2013.

[C31] 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.

[C32] D. Cremers, E. Rodola and T. Windheuser,
Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Shape Matching,

Technical Reports

[R1] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Label Configuration Priors for Continuous Multi-Label Optimization,

2012
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[J1] A. Chambolle, D. Cremers and T. Pock,
A Convex Approach to Minimal Partitions,
[J2] T. Schoenemann and D. Cremers,
A Coding Cost Framework for Super-resolution Motion Layer Decomposition,

[J3] T. Schoenemann, F. Kahl, S. Masnou and D. Cremers,
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