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[C17] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers, 
Rolling-Shutter Modelling for Visual-Inertial Odometry, 
November 2019.

[C18] P. Brechet, T. Wu, T. Möllenhoff and D. Cremers, 
Informative GANs via Structured Regularization of Optimal Transport, 

[C19] Caner Hazirbas, Sebastian Georg Soyer, Maximilian Christian Staab, Laura Leal-Taixe and Daniel Cremers, 
Deep Depth From Focus, 
Asian Conference on Computer Vision (ACCV), December 2018.

[C20] E. Laude, T. Wu and D. Cremers, 
A Nonconvex Proximal Splitting Algorithm under Moreau-Yosida Regularization, 
International Conference on Artificial Intelligence and Statistics (AISTATS), 2018.

[C21] 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.

[C22] 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.
All: 1

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q-Space Deep Learning for Alzheimer’s Disease Diagnosis: Global Prediction and Weakly-Supervised Localization,
2018.

[C24] B. T. Do, V. Golkov, G. E. Gürel and D. Cremers,
Precursor microRNA Identification Using Deep Convolutional Neural Networks,
2018.

[C25] 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.

[C26] Nikolaus Mayer, Eddy Ilg, Philipp Fischer, Caner Hazirbas, Daniel Cremers, Alexey Dosovitskiy and Thomas Brox,
What Makes Good Synthetic Training Data for Learning Disparity and Optical Flow Estimation?,
September 2018.

[C27] T. Frerix, T. Möltenhoff, M. Moeller and D. Cremers,
Proximal Backpropagation,

Discrete-Continuous ADMM for Transductive Inference in Higher-Order MRFs,
2018.

[C29] 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.

[C31] X. Gao, R. Wang, N. Demmel and D. Cremers,
LDSO: Direct Sparse Odometry with Loop Closure,
iros, October 2018.

[C32] Z. Lähner, D. Cremers and T. Tung,
DeepWrinkles: Accurate and Realistic Clothing Modeling,
September 2018, Oral Presentation.

[C33] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers,
Direct Sparse Odometry With Rolling Shutter,
September 2018, Oral Presentation.

[C34] V. Usenko, N. Demmel and D. Cremers,
The Double Sphere Camera Model,
[C35] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel,
Incremental Semi-Supervised Learning from Streams for Object Classification,

6DoF Pose Estimation for Industrial Manipulation based on Synthetic Data,
International Symposium on Experimental Robotics (ISER), Buenos Aires, Argentina,
Nov. 2018.

[C37] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel,
Simultaneous Calibration and Mapping,
International Symposium on Experimental Robotics (ISER), Buenos Aires, Argentina,
Nov. 2018.

[C38] 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.

[C39] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,

[C40] I. Grixa, P. Schulz, W. Stürzl and R. Triebel,
Appearance-Based Along-Route Localization for Planetary Missions,

[C41] M. Sundermeyer, Z. Marton, M. Durner, M. Brucker and R. Triebel,
Implicit 3D Orientation Learning for 6D Object Detection from RGB Images,
September 2018, Best Paper Award.

[C42] M. Denninger and R. Triebel,
Persistent Anytime Learning of Objects from Unseen Classes,

[C43] M. Jaimez, C. Kerl, J. Gonzalez-Jimenez and D. Cremers,
Fast Odometry and Scene Flow from RGB-D Cameras based on Geometric Clustering,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 2017.

[C44] M. Jaimez, T. J. Cashman, A. Fitzgibbon, J. Gonzalez-Jimenez and D. Cremers,
An Efficient Background Term for 3D Reconstruction and Tracking with Smooth Subdivision Surface Models,
2017.

[C45] L. Ma, J. Stueckler, C. Kerl and D. Cremers,
Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D Cameras,
Vancouver, Canada, Sep 2017.
[C46] Vestner, M., Litman, R., Rodola, E., Bronstein, A., Cremers and D.,
Product Manifold Filter: Non-Rigid Shape Correspondence via Kernel Density
Estimation in the Product Space,
2017.

[C47] M. Dzitsiuk, J. Sturm, R. Maier, L. Ma and D. Cremers,
De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using
Plane Priors,

[C48] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers,
From Monocular SLAM to Autonomous Drone Exploration,
European Conference on Mobile Robots (ECMR), September 2017.

[C49] Florian Walch, Caner Hazirbas, Laura Leal-Taixe, Torsten Sattler, Sebastian Hilsenbeck
and Daniel Cremers,
Image-based localization using LSTMs for structured feature correlation,
October 2017.

T. Goldberg, L. Richter, J. Reeb, B. Rost, F. Pfeiffer, D. Cremers, F. Nüsslin and S.E.
Combs,
Establishment of an interdisciplinary workflow of machine learning-based Radiomics in sarcoma patients,

[C51] Queau, Y., Pizenberg, M., Durou, J.-D., Cremers and D.,
Microgeometry capture and RGB albedo estimation by photometric stereo
without demosaicing,
International Conference on Quality Control by Artificial Vision (QCAV), 2017.

[C52] P. Haeusser, A. Mordvintsev and D. Cremers,
Learning by Association - A versatile semi-supervised training method for
neural networks,
2017.

[C53] V. Usenko, L. von Stumberg, A. Pangeric and D. Cremers,
Real-Time Trajectory Replanning for MAVs using Uniform B-splines and a
3D Circular Buffer,
Vancouver, Canada, Sep 2017.

[C54] 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.

[C56] Queau, Y., Melou, J., Durou, J.-D., Cremers and D.,
Dense Multi-view 3D-reconstruction Without Dense Correspondences,
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[C69] 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.

[C70] 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.

[C71] V. Golkov, T. Sprenger, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann and D. Cremers,
Model-Free Novelty-Based Diffusion MRI,
Prague, Czech Republic, April 2016.

[C72] 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.

[C73] Z. Lähner, E. Rodola, F. R. Schmidt, M. M. Bronstein and D. Cremers,
Efficient Globally Optimal 2D-to-3D Deformable Shape Matching,
May 2016.

[C74] A. Narr, R. Triebel and D. Cremers,
Stream-based Active Learning for Efficient and Adaptive Classification of 3D Objects,
May 2016.

[C75] Z. Lähner, E. Rodola, M. M. Bronstein, D. Cremers, O. Burghard, L. Cosmo, A. Dieckmann, R. Klein and Y. Sahillioglu,
SHREC16: Matching of Deformable Shapes with Topological Noise,
May 2016.

[C76] L. Cosmo, E. Rodola, M. M. Bronstein, A. Torsello, D. Cremers and Y. Sahillioglu,
SHREC16: Partial Matching of Deformable Shapes,
May 2016.

[C77] T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers,
Sublabel-Accurate Relaxation of Nonconvex Energies,
2016.

[C78] L. Ma, C. Kerl, J. Stueckler and D. Cremers,
CPA-SLAM: Consistent Plane-Model Alignment for Direct RGB-D SLAM,
May 2016.

[C79] J. Engel, V. Usenko and D. Cremers,
A Photometrically Calibrated Benchmark For Monocular Visual Odometry,

[C80] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,
E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann and D. Cremers,
Sublabel-Accurate Convex Relaxation of Vectorial Multilabel Energies, October 2016.

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

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

D. Klostermann, A. Osep, J. Stueckler and B. Leibe,
Unsupervised Learning of Shape-Motion Patterns for Objects in Urban Street Scenes,
British Machine Vision Conference (BMVC), 2016.

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

F. Engelmann, J. Stueckler and B. Leibe,
Joint Object Pose Estimation and Shape Reconstruction in Urban Street Scenes Using 3D Shape Priors,
Proc. of the German Conference on Pattern Recognition (GCPR), 2016.

M. Moeller, J. Diebold, G. Gilboa and D. Cremers,

J. Diebold, N. Demmel, C. Hazirbas, M. Möller and D. Cremers,

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A. Kanezaki, E. Rodola and T. Harada,

T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers,

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.
[C93] 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.

[C94] R. Mecca, E. Rodola and D. Cremers,  
Analysis of Surface Parametrizations for Modern Photometric Stereo Modeling,  
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[C95] 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.

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Active Online Confidence Boosting for Efficient Object Classification,  

Using Diffusion and Structural MRI for the Automated Segmentation of Multiple Sclerosis Lesions,  
2015.

[C98] 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,  
2015.

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Free-Breathing, Self-Navigated RUFIS Lung Imaging with Motion Compensated Image Reconstruction,  
2015.

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

[C101] 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,  
[C103] D. Holz, A. Topalidou-Kyniazopoulou, J. Stueckler and S. Behnke,
Real-Time Object Detection, Localization and Verification for Fast Robotic Depalletizing,
2015.

[C104] J. Engel, J. Stueckler and D. Cremers,
Large-Scale Direct SLAM with Stereo Cameras,
2015.

[C105] D. Caruso, J. Engel and D. Cremers,
Large-Scale Direct SLAM for Omnidirectional Cameras,
2015.

[C106] Y. Tao, R. Triebel and D. Cremers,
Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams,
2015.

[C107] 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.

[C108] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers,
Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images,

[C109] E. Rodola, M. Moeller and D. Cremers,
Point-wise Map Recovery and Refinement from Functional Correspondence,
Aachen, Germany, 2015, Received the Best Paper Award.

[C110] C. Kerl, J. Stueckler and D. Cremers,
Dense Continuous-Time Tracking and Mapping with Rolling Shutter RGB-D Cameras,
Santiago, Chile, 2015.

[C111] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
Entropy Minimization for Convex Relaxation Approaches,
Santiago, Chile, 2015.

[C112] 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.

[C113] N. Nagaraja, F. R. Schmidt and T. Brox,
Video Segmentation with Just a Few Strokes,
Santiago, Chile, Dec 2015.

[C114] 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,
Santiago, Chile, 2015.


[C123] Y. Kee, M. Souiai, D. Cremers and J. Kim, Sequential Convex Relaxation for Mutual-Information-Based Unsupervised Figure-Ground Segmentation, 2014.


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

M. Strobel, J. Diebold and D. Cremers, 
**Flow and Color Inpainting for Video Completion**, 
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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.

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.

M. R. Oswald and D. Cremers, 
**Surface Normal Integration for Convex Space-time Multi-view Reconstruction**, 
2014.

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

M. R. Oswald, J. Stühmer and D. Cremers, 
**Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction**, 

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

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

A. Kanezaki, E. Rodola, D. Cremers and T. Harada, 
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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.

O. Dunkley, J. Engel, J. Sturm and D. Cremers, 
**Visual-Inertial Navigation for a Camera-Equipped 25g Nano-Quadrotor**, 
[C139] R. Triebel, J. Stübner, M. Souiai and D. Cremers, 
Active Online Learning for Interactive Segmentation Using Sparse Gaussian Processes, 
*German Conference on Pattern Recognition*, 2014.

[C140] S. Debnath, S. S. Baishya, R. Triebel, V. Dutt and D. Cremers, 
Environment-adaptive Learning: How Clustering Helps to Obtain Good Training Data, 

[C141] A. Kanezaki, E. Rodola, D. Cremers and T. Harada, 
Learning Similarities for Rigid and Non-Rigid Object Detection, 

[C142] D. Bender, M. Schikora, J. Sturm and D. Cremers, 
INS-Camera Calibration without Ground Control Points, 

[C143] C. Kerl, M. Souiai, J. Sturm and D. Cremers, 
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras, 

[C144] J. Stueckler and S. Behnke, 
Adaptive Tool-Use Strategies for Anthropomorphic Service Robots, 

[C145] D. Droeschel, J. Stueckler and S. Behnke, 
Local Multi-Resolution Surfel Grids for MAV Motion Estimation and 3D Mapping, 

[C146] J. Stueckler, A. Gutt and S. Behnke, 
Combining the Strengths of Sparse Interest Point and Dense Image Registration for RGB-D Odometry, 
*Proc. of the Joint 45th International Symposium on Robotics (ISR) and 8th German Conference on Robotics (ROBOTIK)*, to appear, June 2014.

[C147] J. Stueckler and S. Behnke, 
Efficient deformable registration of multi-resolution surfel maps for object manipulation skill transfer, 

[C148] D. Droeschel, J. Stueckler and S. Behnke, 
Local multi-resolution representation for 6D motion estimation and mapping with a continuously rotating 3D laser scanner, 
*Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA)*, 5221-5226, May 2014.
[C149] M. Schwarz, J. Stueckler and S. Behnke,  
Mobile Teleoperation Interfaces with Adjustable Autonomy for Personal Service Robots,  

[C150] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,  
Dense Elastic 3D Shape Matching,  

[C151] Bergbauer, Julia, Tari and Sibel,  
Wimmelbild Analysis with Approximate Curvature Coding Distance Images,  

[C152] Bergbauer, Julia, Tari and Sibel,  
Top-down visual search in Wimmelbild,  

[C153] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,  
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[C154] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,  
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[C155] 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.

[C156] 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.

[C157] V. Golkov, T. Sprenger, M.I. Menzel, D. Cremers and J.I. Sperl,  
Line-Process-Based Joint SENSE Reconstruction of Diffusion Images with Intensity Inhomogeneity Correction and Noise Non-Stationarity Correction,  
2013, Certificate of Merit Award.

[C158] 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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[C159] 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, 
2013.

Phase Sensitive Reconstruction in Diffusion Spectrum Imaging Enabling Velocity Encoding and Unbiased Noise Distribution, 
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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, 
2013.

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Robust Odometry Estimation for RGB-D Cameras, 
May 2013, Best Vision Paper Award - Finalist.

[C164] E. Toeppe, C. Nieuwenhuis and D. Cremers, 
Volume Constraints for Single View Reconstruction, 
Portland, USA, 2013.

Toward Automated Driving in Cities using Close-to-Market Sensors, 

[C166] H. Grimmett, R. Paul, R. Triebel and I. Posner, 
Knowing When We Dont Know: Introspective Classification for Mission-Critical Decision Making, 

[C167] D. Weikersdorfer, A. Schick and D. Cremers, 
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2013.

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Introspective Active Learning for Scalable Semantic Mapping, 
E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,

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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

J. Sturm and W. Burgard,
Learning Probabilistic Models for Mobile Manipulation Robots,
Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), Track on
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M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
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2013.

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2013.

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Dense Tracking and Mapping with a Quadrocopter,
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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.

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CopyMe3D: Scanning and Printing Persons in 3D,
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2013.
[C182] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,
Efficient Shape Matching using Vector Extrapolation,
2013.

[C183] J. Engel, J. Sturm and D. Cremers,
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Sydney, Australia, December 2013.

[C184] E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,
Elastic Net Constraints for Shape Matching,
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Total Variation Regularization for Functions with Values in a Manifold,
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[C186] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Proportion Priors for Image Sequence Segmentation,
Sydney, Australia, December 2013.

[C187] 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.

[C188] 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.

[C189] 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.

[C190] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
Sydney, Australia, 2013.

[C191] T. Naseer, J. Sturm and D. Cremers,
Interactive Person Following and Gesture Recognition with a Flying Robot,
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EE. Int. Conf. on Intelligent Robots and Systems (IROS), Nov. 2013.

Driven Learning for Driving: How Introspection Improves Semantic Mapping,
The International Symposium on Robotics Research (ISRR), 2013.

[C193] D. Cremers, E. Rodola and T. Windheuser,
Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Shape
Matching,
2013.
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[C194] M. Schadler, J. Stueckler and S. Behnke,
Multi-resolution surfel mapping and real-time pose tracking using a continuously rotating 2D laser scanner,

[C195] J. Stueckler and S. Behnke,
Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,

[C196] M. McElhone, J. Stueckler and S. Behnke,
Joint detection and pose tracking of multi-resolution surfel models in RGB-D,

[C197] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
Distinctive 3D surface entropy features for place recognition,

[C198] A. Berner, Jun Li, D. Holz, J. Stueckler, S. Behnke and R. Klein,
Combining contour and shape primitives for object detection and pose estimation of prefabricated parts,

[C199] J. Stueckler and S. Behnke,
Hierarchical Object Discovery and Dense Modelling From Motion Cues in RGB-D Video,

[C200] M. Nieuwenhuisen, D. Droeschel, D. Holz, J. Stueckler, A. Berner, Jun Li, R. Klein and S. Behnke,
Mobile bin picking with an anthropomorphic service robot,

[C201] L. Gorelick, F. R. Schmidt and Y. Boykov,
Fast Trust Region for Segmentation,
Portland, Oregon, Jun 2013.

[C202] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald,
Planar simplification and texturing of dense point cloud maps,

[C203] E. Rodola, A.M. Bronstein, A. Albarelli, F. Bergamasco and A. Torsello,
A game-theoretic approach to deformable shape matching,

[C204] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
An Evaluation of the RGB-D SLAM System,
T. Ruehr, J. Sturm, D. Pangercic, M. Beetz and D. Cremers,
A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,

Dominik Joho AND Gian Diego Tipaldi AND Nikolos Engelhard AND Cyrill Stachniss
AND Wolfram Burgard,
Nonparametric Bayesian Models for Unsupervised Scene Analysis and Reconstruction,

M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit,
Box-Particle Intensity Filter,

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.

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

E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Nonmetric Priors for Continuous Multilabel Optimization,
Firenze, Italy, Springer, October 2012.

T. Windheuser, H. Ishikawa and D. Cremers,
Generalized Roof Duality for Multi-Label Optimization: Optimal Lower Bounds and Persistency,
Firenze, Italy, October 2012.

T. Windheuser, H. Ishikawa and D. Cremers,
QPBO [QPBO arugorizumu no tachika ni yorui hiretsu mojura enerugi saisho-ka],
Meeting on Image Recognition and Understanding, Fukuoka, Japan, August 2012.

M. R. Oswald, E. Toeppe and D. Cremers,
Fast and Globally Optimal Single View Reconstruction of Curved Objects,
Providence, Rhode Island, 534-541, June 2012.

E. Strekalovskiy, A. Chambolle and D. Cremers,
A Convex Representation for the Vectorial Mumford-Shah Functional,
Providence, Rhode Island, June 2012.

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Camera-Based Navigation of a Low-Cost Quadrocopter,

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A Benchmark for the Evaluation of RGB-D SLAM Systems,
[C217] J. Engel, J. Sturm and D. Cremers, 
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing, 

[C218] J. Sturm, W. Burgard and D. Cremers, 
Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark, 

Evaluation of DSI Imaging with Compressed Sensing under the Presence of Different Noise Levels on a Diffusion Phantom, 2012.


[C221] N. Ufer, M. Souiai and D. Cremers, 
Wehrli 2.0: An Algorithm for Tidying up Art, 

Semantic Categorization of Outdoor Scenes with Uncertainty Estimates using Multi-Class Gaussian Process Classification, 

Parsing Outdoor Scenes from Streamed 3D Laser Data Using Online Clustering and Incremental Belief Updates, 

[C224] U. Hubert, J. Stueckler and S. Behnke, 
Bayesian calibration of the hand-eye kinematics of an anthropomorphic robot, 
Proc. of the 12th IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids), 618-624, November 2012.

[C225] J. Stueckler, N. Biresev and S. Behnke, 
Semantic mapping using object-class segmentation of RGB-D images, 
Proc. of the IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), 3005-3010, October 2012.

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S. Muszynski, J. Stueckler and S. Behnke,
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M. Nieuwenhuisen, J. Stueckler, A. Berner, R. Klein and S. Behnke,
Shape-Primitive Based Object Recognition and Grasping,

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Efficient Mobile Robot Navigation using 3D Surfel Grid Maps,

J. Stueckler and S. Behnke,
Robust Real-Time Registration of RGB-D Images using Multi-Resolution Surfel Representations,

V. Usenko, F. Seidel, Z. Marton, D. Pangercic and M. Beetz,
Furniture Classification using WWW CAD Models,

F. R. Schmidt and Y. Boykov,
Hausdorff Distance Constraint for Multi-Surface Segmentation,

L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward,
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A. Torsello, E. Rodola and A. Albarelli,
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2441-2448, 2011.

F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
RUNE-Tag: a High Accuracy Fiducial Marker with Strong Occlusion Resilience,
113-120, 2011.

A. Albarelli, E. Rodola and A. Torsello,
A Non-Cooperative Game for 3D Object Recognition in Cluttered Scenes,
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[C240] A. Torsello, E. Rodola and A. Albarelli, 
Sampling Relevant Points for Surface Registration, 
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[C241] T. Windheuser, U. Schlickewei, F. R. Schmidt and D. Cremers, 
Geometrically Consistent Elastic Matching of 3D Shapes: A Linear Programming Solution, 
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[C242] M. Aubry, U. Schlickewei and D. Cremers, 
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Frankfurt, Germany, Springer, 2011.

[C243] T. Schoenemann, S. Masnou and D. Cremers, 
On a linear programming approach to the discrete Willmore boundary value problem and generalizations, 

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Total Variation for Cyclic Structures: Convex Relaxation and Efficient Minimization, 

[C245] B. Goldluecke and D. Cremers, 
Introducing Total Curvature for Image Processing, 
2011.

[C246] E. Strekalovskiy, B. Goldluecke and D. Cremers, 
Tight Convex Relaxations for Vector-Valued Labeling Problems, 
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[C249] J. Hess, J. Sturm and W. Burgard, 
Learning the State Transition Model to Efficiently Clean Surfaces with Mobile Manipulation Robots, 
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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[C251] J. Sturm, S. Magnenat, N. Engelhard, F. Pomerleau, F. Colas, W. Burgard, D. Cremers and R. Siegwart,
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177-190, 2011.

[C253] M. Klodt and D. Cremers,

[C254] M. Aubry, U. Schlickewei and D. Cremers,
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[C257] M. Schikora, M.Oispuu, W. Koch and D. Cremers,
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[C258] S. Madhogaria, M. Schikora, W. Koch and D. Cremers,
Pixel-based Classification Method for Detecting Unhealthy Regions in Leaf Images,
6th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), Berlin, Germany, September 2011.

[C259] M. Schikora, W. Koch, R.L. Streit and D. Cremers,
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14th International Conference on Information Fusion (FUSION), Chicago, IL, USA, July 2011.

[C260] M. Oispuu and M. Schikora,
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[C261] M. Schikora, W. Koch and D. Cremers,
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[C262] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
*Silhouette-Based Variational Methods for Single View Reconstruction*,

[C263] 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*,

[C264] J. Shin, R. Triebel and R. Siegwart,
*Unsupervised 3D Object Discovery and Categorization for Mobile Robots*,

[C265] J. Maye, R. Triebel, L. Spinello and R. Siegwart,
*Bayesian On-line Learning of Driving Behaviors*,
2011.

[C266] B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke,
Efficient Multi-resolution Plane Segmentation of 3D Point Clouds,

[C267] J. Stueckler and S. Behnke,
Following human guidance to cooperatively carry a large object,
*Proc. of the 11th IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids)*, 218-223, October 2011.

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Real-Time 3D Perception and Efficient Grasp Planning for Everyday Manipulation Tasks.,
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[C269] J. Stueckler and S. Behnke,
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[C270] D. Droeschel, J. Stueckler, D. Holz and S. Behnke,
Towards joint attention for a domestic service robot - person awareness and gesture recognition using Time-of-Flight cameras,
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[C273] F. R. Schmidt, H. Ackermann and B. Rosenhahn,
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[C274] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,
Interactive Segmentation with Super-Labels,

[C275] A. Albarelli, E. Rodola and A. Torsello,
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[C276] E. Rodola, A. Albarelli and A. Torsello,
A Game-Theoretic Approach to Robust Selection of Multi-View Point Correspondence,
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[C277] A. Albarelli, E. Rodola, A. Cavallarin and A. Torsello,
Robust Figure Extraction on Textured Background: a Game-Theoretic Approach,

[C278] E. Rodola, A. Albarelli and A. Torsello,
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[C279] A. Albarelli, E. Rodola and A. Torsello,
A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation,

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[C281] A. Albarelli, E. Rodola and A. Torsello,
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Intuitive Multimodal Interaction for Domestic Service Robots,

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Improving indoor navigation of autonomous robots by an explicit representation of doors,
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[C316] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
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Detection and Segmentation of Independently Moving Objects from Dense Scene Flow,
B. Goldluecke and D. Cremers,
A Superresolution Framework for High-Accuracy Multiview Reconstruction,
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J. Sturm, C. Stachniss, V. Pradeep, C. Plagemann, K. Konolige and W. Burgard,
Towards Understanding Articulated Objects,


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