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[C82] R. Mecca, E. Rodola and D. Cremers,
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M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
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T. Sprenger, J.I. Sperl, B. Fernandez, V. Golkov, E.T. Tan, C.J. Hardy, L. Marinelli, M. Czisch, P. Sämann, A. Haase and M.I. Menzel,
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2014.

D. Weikersdorfer, D. B. Adrian, D. Cremers and J. Conrad,
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Volumetric 3D Mapping in Real-Time on a CPU,
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[C110] E. Rodola, S. Rota Bulo, T. Windheuser, M. Vestner and D. Cremers,
Dense Non-Rigid Shape Correspondence Using Random Forests,
2014.

[C111] Y. Kee, M. Souiai, D. Cremers and J. Kim,
Sequential Convex Relaxation for Mutual-Information-Based Unsupervised
Figure-Ground Segmentation,
2014.

[C112] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers,
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[C113] J. Engel, T. Schöps and D. Cremers,
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September 2014, Oral Presentation.

[C114] T. Schöps, J. Engel and D. Cremers,
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September 2014, Best Short Paper Award.

[C115] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers,
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2014.

[C116] M. Strobel, J. Diebold and D. Cremers,
Flow and Color Inpainting for Video Completion,
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[C117] R. Maier, J. Sturm and D. Cremers,
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[C118] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers,
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Münster, Germany, Vol. 36, September 2014.

[C119] M. R. Oswald and D. Cremers,
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2014.

[C120] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers,
Co-Sparse Textural Similarity for Interactive Segmentation,
2014.

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Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction,

[C122] E. Strekalovskiy and D. Cremers,
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,


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[C134] 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.

[C135] J. Stueckler and S. Behnke,
Efficient deformable registration of multi-resolution surfel maps for object manipulation skill transfer,

[C136] 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.

[C137] M. Schwarz, J. Stueckler and S. Behnke,
Mobile Teleoperation Interfaces with Adjustable Autonomy for Personal Service Robots,

[C138] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,
Dense Elastic 3D Shape Matching,

[C139] Bergbauer, Julia, Tari and Sibel,

[C140] Bergbauer, Julia, Tari and Sibel,
Top-down visual search in Wimmelbild,

[C141] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
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[C142] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Convex Optimization for Scene Understanding,
ICCV Workshop on Graphical Models for Scene Understanding, 2013.

[C143] 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.

[C144] V. Golkov, T. Sprenger, A. Menini, M.I. Menzel, D. Cremers and J.I. Sperl,
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[C145] 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.

[C146] V. Golkov, M.I. Menzel, T. Sprenger, A. Menini, D. Cremers and J.I. Sperl,
Reconstruction, Regularization, and Quality in Diffusion MRI Using the Ex-
ample of Accelerated Diffusion Spectrum Imaging,
16th Annual Meeting of the German Chapter of the ISMRM, 2013, Oral Presentation.

[C147] 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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Hardy, L. Marinelli, M. Czisch, P. Säämann, A. Haase and M.I. Menzel,
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Spectrum Imaging Using a Fiber Crossing Phantom, 2013.

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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.

[C151] C. Kerl, J. Sturm and D. Cremers,
Robust Odometry Estimation for RGB-D Cameras,
May 2013, Best Vision Paper Award - Finalist.

[C152] E. Toeppe, C. Nieuwenhuis and D. Cremers,
Volume Constraints for Single View Reconstruction,
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L. Wolf, M. Pollefeys, S. Brosig, J. Effertz, C. Pradalier and R. Siegwart,
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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 Robotics: Science and Systems Conference (RSS), June 2013.

[C160] J. Sturm and W. Burgard,  
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Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), Track on Best papers in Sister Conferences, 2013.

[C161] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,  
A Co-occurrence Prior for Continuous Multi-Label Optimization,  
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[C163] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,  
Efficient Convex Optimization for Minimal Partition Problems with Volume Constraints,  
2013.

[C164] C. Kerl, J. Sturm and D. Cremers,  
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[C165] T. Naseer, J. Sturm and D. Cremers,  
FollowMe: Person Following and Gesture Recognition with a Quadrocopter,  

[C166] M. Klodt, J. Sturm and D. Cremers,  
Scale-Aware Object Tracking with Convex Shape Constraints on RGB-D Images,  
German Conference on Pattern Recognition (GCPR), Saarbrücken, Germany, September 2013.
[C167] 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.

[C168] 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.

[C169] J. Sturm, E. Bylow, F. Kahl and D. Cremers,  
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*German Conference on Pattern Recognition (GCPR)*, Saarbrücken, Germany, September 2013.

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2013.

[C171] J. Engel, J. Sturm and D. Cremers,  
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[C172] E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,  
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[C174] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,  
Proportion Priors for Image Sequence Segmentation,  
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[C175] J. Stühmer, P. Schröder and D. Cremers,  
Tree Shape Priors with Connectivity Constraints using Convex Relaxation on General Graphs,  
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[C176] G. Kuschk and D. Cremers,  
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*ICCV Workshop on Big Data in 3D Computer Vision*, Sydney, Australia, December 2013.

[C177] M. R. Oswald and D. Cremers,  
A Convex Relaxation Approach to Space Time Multi-view 3D Reconstruction,  
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[C178] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,  
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Sydney, Australia, 2013.

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Interactive Person Following and Gesture Recognition with a Flying Robot,  
*Proc. of the Assistance and Service Robotics Workshop (ASROB) at the IE-EE. Int. Conf. on Intelligent Robots and Systems (IROS)*, Nov. 2013.
R. Triebel, H. Grimmett, R. Paul and I. Posner, 
**Driven Learning for Driving: How Introspection Improves Semantic Mapping**, 
*The International Symposium on Robotics Research (ISRR)*, 2013.

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

M. Schadler, J. Stueckler and S. Behnke, 
**Multi-resolution surfel mapping and real-time pose tracking using a continuously rotating 2D laser scanner**, 

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

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

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

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**, 

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

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**, 

L. Gorelick, F. R. Schmidt and Y. Boykov, 
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Portland, Oregon, Jun 2013.

L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald, 
**Planar simplification and texturing of dense point cloud maps**, 
[C191] E. Rodola, A.M. Bronstein, A. Albarelli, F. Bergamasco and A. Torsello,
A game-theoretic approach to deformable shape matching,

[C192] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
An Evaluation of the RGB-D SLAM System,

[C193] T. Ruehr, J. Sturm, D. Pangeric, M. Beetz and D. Cremers,
A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,

[C194] Dominik Joho AND Gian Diego Tipaldi AND Nikolas Engelhard AND Cyrill Stachniss
AND Wolfram Burgard,
Nonparametric Bayesian Models for Unsupervised Scene Analysis and Reconstruction,

[C195] M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit,
Box-Particle Intensity Filter,

[C196] 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.

[C197] L. Zhang, J. Sturm, D. Cremers and D. Lee,
Real-Time Human Motion Tracking using Multiple Depth Cameras,

[C198] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Nonmetric Priors for Continuous Multilabel Optimization,
Firenze, Italy, Springer, October 2012.

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Firenze, Italy, October 2012.

[C200] T. Windheuser, H. Ishikawa and D. Cremers,
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Meeting on Image Recognition and Understanding, Fukuoka, Japan, August 2012.

[C201] 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.

[C202] E. Strekalovskiy, A. Chambolle and D. Cremers,
A Convex Representation for the Vectorial Mumford-Shah Functional,
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[C203] J. Engel, J. Sturm and D. Cremers,
Camera-Based Navigation of a Low-Cost Quadrocopter,

[C204] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
A Benchmark for the Evaluation of RGB-D SLAM Systems,

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Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing,

[C206] 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,
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[C209] N. Ufer, M. Souiai and D. Cremers,
Wehrli 2.0: An Algorithm for Tidying up Art,

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[C212] U. Hubert, J. Stueckler and S. Behnke,
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Proc. of the 12th IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids), 618-624, November 2012.
[C213] 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.

[C214] J. Stueckler and S. Behnke,
Integrating depth and color cues for dense multi-resolution scene mapping using RGB-D cameras,
Proc. of the IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI), 162-167, September 2012.

[C215] S. Muszynski, J. Stueckler and S. Behnke,
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Proc. of the IEEE Int. Symp. on Robot and Human Interactive Communication, 933-940, September 2012.

[C216] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
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[C217] G. M. Garcia, D. A. Klein, J. Stueckler, S. Frintrop and A. B. Cremers,
Adaptive Multi-cue 3D Tracking of Arbitrary Objects,

[C218] J. Stueckler and S. Behnke,

[C219] M. Nieuwenhuisen, J. Stueckler, A. Berner, R. Klein and S. Behnke,
Shape-Primitive Based Object Recognition and Grasping,

[C220] J. Kläss, J. Stueckler and S. Behnke,
Efficient Mobile Robot Navigation using 3D Surfel Grid Maps,

[C221] J. Stueckler and S. Behnke,
Robust Real-Time Registration of RGB-D Images using Multi-Resolution Surfel Representations,

[C222] V. Usenko, F. Seidel, Z. Marton, D. Pangercic and M. Beetz,
Furniture Classification using WWW CAD Models,

[C223] F. R. Schmidt and Y. Boykov,
Hausdorff Distance Constraint for Multi-Surface Segmentation,

[C224] L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward,
Segmentation with non-linear regional constraints via line-search cuts,
[C225] A. Torsello, E. Rodola and A. Albarelli,
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2441-2448, 2011.

[C226] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
RUNE-Tag: a High Accuracy Fiducial Marker with Strong Occlusion Resilience,
113-120, 2011.

[C227] A. Albarelli, E. Rodola and A. Torsello,
A Non-Cooperative Game for 3D Object Recognition in Cluttered Scenes,
International Conference on 3D Imaging, Modeling, Processing, Visualization and Transmission (3DIMPVT), 252-259, 2011.

[C228] A. Torsello, E. Rodola and A. Albarelli,
Sampling Relevant Points for Surface Registration,
International Conference on 3D Imaging, Modeling, Processing, Visualization and Transmission (3DIMPVT), 290-295, 2011.

[C229] 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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[C230] M. Aubry, U. Schlickewei and D. Cremers,
Pose-Consistent 3D Shape Segmentation Based on a Quantum Mechanical Feature Descriptor,
Frankfurt, Germany, Springer, 2011.

[C231] T. Schoenemann, S. Masnou and D. Cremers,
On a linear programming approach to the discrete Willmore boundary value problem and generalizations,

[C232] E. Strekalovskiy and D. Cremers,
Total Variation for Cyclic Structures: Convex Relaxation and Efficient Minimization,

[C233] B. Goldluecke and D. Cremers,
Introducing Total Curvature for Image Processing,
2011.

[C234] E. Strekalovskiy, B. Goldluecke and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling Problems,
2011.

[C235] M. Aubry, K. Kolev, B. Goldluecke and D. Cremers,
Decoupling Photometry and Geometry in Dense Variational Camera Calibration,
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[C236] E. Strekalovskiy and D. Cremers,
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[C247] M. Schikora, W. Koch, R.L. Streit and D. Cremers,
Sequential Monte Carlo Method for the iFilter,
14th International Conference on Information Fusion (FUSION), Chicago, IL, USA, July 2011.

[C248] M. Oispuu and M. Schikora,
Multiple Emitter Localization Using a Realistic Airborne Array Sensor,
14th International Conference on Information Fusion (FUSION), Chicago, IL, USA, July 2011.

[C249] M. Schikora, W. Koch and D. Cremers,
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International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prag, Czech Republic, Mai 2011.

[C250] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
Silhouette-Based Variational Methods for Single View Reconstruction,

[C251] 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,

[C252] J. Shin, R. Triebel and R. Siegwart,
Unsupervised 3D Object Discovery and Categorization for Mobile Robots,

[C253] J. Maye, R. Triebel, L. Spinello and R. Siegwart,
Bayesian On-line Learning of Driving Behaviors,
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[C254] B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke,
Efficient Multi-resolution Plane Segmentation of 3D Point Clouds,

[C255] J. Stueckler and S. Behnke,
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[C256] J. Stueckler, R. Steffens, D. Holz and S. Behnke,
Real-Time 3D Perception and Efficient Grasp Planning for Everyday Manipulation Tasks.,
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[C257] J. Stueckler and S. Behnke,
Compliant Task-Space Control with Back-Drivable Servo Actuators,
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,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 1205-1210, May 2011.

J. Stueckler and S. Behnke,
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