Journal Articles


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List of Publications

[J11] G Fabbro, V Golkov, T Kemp and D Cremers,
Speech Synthesis and Control Using Differentiable DSP,

[J12] I Chiotellis and D Cremers,
Neural Online Graph Exploration,

Video Object Segmentation without Temporal Information,

[J14] E Rodola, Z Lähner, AM. Bronstein, MM. Bronstein and J Solomon,
Functional Maps Representation on Product Manifolds,

[J15] H Tjaden, U Schwanecke, E Schömer and D Cremers,
A Region-based Gauss-Newton Approach to Real-Time Monocular Multiple Object Tracking,

A Non-invasive 3D Body Scanner and Software Tool towards Analysis of Scoliosis,

[J17] F. Pasa, V. Golkov, F. Pfeiffer, D. Cremers and D. Pfeiffer,
Efficient Deep Network Architectures for Fast Chest X-Ray Tuberculosis Screening and Visualization,

[J18] J. Schuchardt, V. Golkov and D. Cremers,
Learning to Evolve,

[J19] L. Della Libera, V. Golkov, Y. Zhu, A. Mielke and D. Cremers,
Deep Learning for 2D and 3D Rotatable Data: An Overview of Methods,

Augmented Autoencoders: Implicit 3D Orientation Learning for 6D Object Detection,

[J21] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,

[J22] N. Yang, R. Wang, X. Gao and D. Cremers,
Challenges in Monocular Visual Odometry: Photometric Calibration, Motion Bias and Rolling Shutter Effect,
[J23] Y. Queau, B. Durix, T. Wu, D. Cremers, F. Lauze and J.-D. Durou,  
LED-based Photometric Stereo: Modeling, Calibration and Numerical Solution,  

[J24] Y. Queau, J.-D. Durou and J.-F. Aujol,  
Normal Integration: A Survey,  

[J25] Y. Queau, J.-D. Durou and J.-F. Aujol,  
Variational Methods for Normal Integration,  

[J26] B. Bringmann, D. Cremers and F. Krahmer,  
The homotopy method revisited: Computing solution paths of L1-regularized problems,  

[J27] J. Melou, Y. Queau, J.-D. Durou, F. Castan and D. Cremers,  
Variational Reflectance Estimation from Multi-view Images,  

[J28] P. Bergmann, R. Wang and D. Cremers,  
Online Photometric Calibration of Auto Exposure Video for Realtime Visual Odometry and SLAM,  

[J29] E. Aljalbout, V. Golkov, Y. Siddiqui, M. Strobel and D. Cremers,  
Clustering with Deep Learning: Taxonomy and New Methods,  

What Makes Good Synthetic Training Data for Learning Disparity and Optical Flow Estimation?,  

[J31] H. Matsuki, L. von Stumberg, V. Usenko, J. Stueckler and D. Cremers,  
Omnidirectional DSO: Direct Sparse Odometry with Fisheye Cameras,  

[J32] L. Ma, J. Stueckler, T. Wu and D. Cremers,  
Detailed Dense Inference with Convolutional Neural Networks via Discrete Wavelet Transform,  
Aug 2018.

[J33] G. Kuschk, P. d’Angelo, D. Gaudrie, P. Reinartz and D. Cremers,  
Spatially Regularized Fusion of Multiresolution Digital Surface Models,  

[J34] D. Cremers, L. Leal-Taixe and R. Vidal,  
Deep Learning for Computer Vision (Dagstuhl Seminar 17391),  
[J35] Y. Kee, Y. Lee, M. Souiai, D. Cremers and J. Kim,  
Sequential Convex Programming for Computing Information-Theoretic Minimal Partitions: Nonconvex Nonsmooth Optimization,  

[J36] D Cremers,  
Computer Vision für 3-D-Rekonstruktion - Vom Nischenthema zum Mainstream,  

[J37] E. Rodola, L. Cosmo, M. M. Bronstein, A. Torsello and D. Cremers,  
Partial Functional Correspondence,  

[J38] L. Cosmo, E. Rodola, A. Albarelli, F. Memoli and D. Cremers,  
Consistent Partial Matching of Shape Collections via Sparse Modeling,  

[J39] Y. Queau, R. Mecca, J.-D. Durou and X. Descombes,  
Photometric Stereo with Only Two Images: A Theoretical Study and Numerical Resolution,  

[J40] M. Bähr, M. Breus, Y. Queau, A. S. Bouroujerdi and J.-D. Durou,  
Fast and accurate surface normal integration on non-rectangular domains,  

Genetic defects in s-spectrin and tau sensitize C. elegans axons to movement-induced damage via torque-tension coupling,  

Tau Like Proteins Reduce Torque Generation in Microtubule Bundles,  

[J43] E Rodola, M Möller and D Cremers,  
Regularized Pointwise Map Recovery from Functional Correspondence,  

[J44] J. Kukacka, V. Golkov and D. Cremers,  
Regularization for Deep Learning: A Taxonomy,  

[J45] J. Diebold, C. Nieuwenhuis and D. Cremers,  
Midrange Geometric Interactions for Semantic Segmentation,  

[J46] J. Duran, M. Möller, C. Sbert and D. Cremers,  
Collaborative Total Variation: A General Framework for Vectorial TV Models,  
[J47] M. Burger, G. Gilboa, M. Möller, L. Eckardt and D. Cremers, 
Spectral Decompositions Using One-Homogeneous Functionals, 

[J48] D. Boscaini, J. Masci, E. Rodola, M. M. Bronstein and D. Cremers, 
Anisotropic Diffusion Descriptors, 

[J49] F. Bergamasco, A. Albarelli, L. Cosmo, E. Rodola and A. Torsello, 
An Accurate and Robust Artificial Marker based on Cyclic Codes, 

Bias and Precision Analysis of Diffusional Kurtosis Imaging for Different Acquisition Schemes, 

[J51] 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, 

[J52] O. Litany, E. Rodola, A. M. Bronstein, M. M. Bronstein and D. Cremers, 
Non-Rigid Puzzles, 

[J53] M. Strumia, F. R. Schmidt, C. Anastasopoulos, C. Granziera, G. Krueger and T. Brox, 
White Matter MS-Lesion Segmentation Using a Geometric Brain Model, 

[J54] M. Vestner, R. Litman, A. Bronstein, E. Rodola and D. Cremers, 
Bayesian Inference of Bijective Non-Rigid Shape Correspondence, 

[J55] R. Mecca, Y. Queau, F. Logothetis and R. Cipolla, 
A Single-Lobe Photometric Stereo Approach for Heterogeneous Material, 

[J56] A. Albarelli, E. Rodola and A. Torsello, 
Fast and Accurate Surface Alignment through an Isometry-Enforcing Game, 

[J57] J. Diebold, S. Tari and D. Cremers, 
The Role of Diffusion in Figure Hunt Games, 

[J58] S. Madhogaria, P. M. Baggenstoss, M. Schikora, W. Koch and D. Cremers, 
Car detection by fusion of HOG and causal MRF, 
[J59] M. Klodt, K. Herzog, R. Töpfer and D. Cremers,  
Field phenotyping of grapevine growth using dense stereo reconstruction,  

[J60] M. Jaimez and J. Gonzalez-Jimenez,  
Fast Visual Odometry for 3-D Range Sensors,  

[J61] J. L. BC M. Jaimez and J. Gonzalez-Jimenez,  
Efficient Reactive Navigation with Exact Collision Determination for 3D Robot Shapes,  

[J62] J. Stueckler and S. Behnke,  
Efficient Dense Rigid-Body Motion Segmentation and Estimation in RGB-D Video,  

NimbRo Explorer: Semi-Autonomous Exploration and Mobile Manipulation in Rough Terrain,  

[J64] D. Droeschel, M. Nieuwenhuisen, M. Beul, J. Stueckler, D. Holz and S. Behnke,  
Multi-Layered Mapping and Navigation for Autonomous Micro Aerial Vehicles,  

[J65] E. Rodola, A. Albarelli, D. Cremers and A. Torsello,  
A Simple and Effective Relevance-based Point Sampling for 3D Shapes,  

[J66] R. Mecca, E. Rodola and D. Cremers,  
Realistic Photometric Stereo Using Partial Differential Irradiance Equation Ratios,  

[J67] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers,  
The Primal-Dual Hybrid Gradient Method for Semiconvex Splittings,  

Cloud-based collaborative 3D mapping in real-time with low-cost robots,  

[J69] H Grimmett, R Triebel, R Paul and I Posner,  
Introspective classification for robot perception,  

[J70] Y. Kee, H. Lee, J. Yim, D. Cremers and J. Kim,  
Entropy Minimization for Groupwise Planar Shape Co-alignment and its Applications,  


[J83] C. Nieuwenhuis, E. Toeppe and D. Cremers,  
A Survey and Comparison of Discrete and Continuous Multi-label Optimization Approaches for the Potts Model,  

[J84] B. Goldluecke, E. Strekalovskiy and D. Cremers,  
Tight Convex Relaxations for Vector-Valued Labeling,  

[J85] F. Endres, J. Hess, J. Sturm, D. Cremers and W. Burgard,  
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[J86] Z. Liu, M. Beetz, D. Cremers, J. Gall, W. Li, D. Pangercic, J. Sturm and Y.-W. Tai,  
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[J87] A. Albarelli, E. Rodola and A. Torsello,  
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[J88] A. Chambolle, D. Cremers and T. Pock,  
A Convex Approach to Minimal Partitions,  

[J89] T. Schoenemann and D. Cremers,  
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[J90] T. Schoenemann, F. Kahl, S. Masnou and D. Cremers,  
A linear framework for region-based image segmentation and inpainting involving curvature penalization,  

[J91] D. Cremers,  
Optimal Solutions for Semantic Image Decomposition,  

[J92] S. Chen, D. Cremers and R. J. Radke,  
Image segmentation with one shape prior - A template-based formulation,  

[J93] B. Goldluecke, E. Strekalovskiy and D. Cremers,  
The Natural Total Variation Which Arises from Geometric Measure Theory,  

[J94] U. Schlickewei,  
On the André motive of certain irreducible symplectic varieties,  


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[J106] S. Chitta, J. Sturm, M. Piccoli and W. Burgard,
Tactile Sensing for Mobile Manipulation,
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A Variational Approach to Vesicle Membrane Reconstruction from Fluorescence Imaging,
Pattern Recognition, 44: 2944-2958, 2011.

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[J109] J. Kybic and C. Nieuwenhuis,
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[J110] T. Pock, D. Cremers, H. Bischof and A. Chambolle,
Global Solutions of Variational Models with Convex Regularization,

[J111] T. Schoenemann and D. Cremers,
A Combinatorial Solution for Model-based Image Segmentation and Real-time Tracking,

[J112] U. Schlickewei,
The Hodge conjecture for self-products of certain K3 surfaces,

[J113] U. Schlickewei,
Stability of tautological vector bundles on Hilbert squares of surfaces,

[J114] Y. Arboleda-Estudillo, M. Krieg, J. Stühmer, N. A. Licata, D. J. Muller and C.-P. Heisenberg,
Movement Directionality in Collective Migration of Germ Layer Progenitors,

[J115] L. Spinello, R. Triebel and R. Siegwart,
Multiclass Multimodal Detection and Tracking in Urban Environments,

[J116] T. Brox and D. Cremers,
On local region models and a statistical interpretation of the piecewise smooth Mumford-Shah functional,

[J117] T. Brox, B. Rosenhahn, J. Gall and D. Cremers,
Combined region- and motion-based 3D tracking of rigid and articulated objects,
[J118] K. Kolev, M. Klodt, T. Brox and D. Cremers,
Continuous Global Optimization in Multiview 3D Reconstruction,

[J119] A. Wedel, C. Rabe, H. Badino, H. Loose, U. Franke and D. Cremers,
B-Spline Modeling of Road Surfaces with an Application to Free Space Estimation,

[J120] U. Schlickewei,
Hodge classes on self-products of K3 surfaces,

[J121] E. Strekalovskiy,
Folgen von Höhenfußpunktdreiecken und ihre Grenzpunkte,

[J122] J. Sturm, C. Plagemann and W. Burgard,
Body schema learning for robotic manipulators from visual self-perception,

[J123] J. Sturm and A. Visser,
An appearance-based visual compass for mobile robots,

[J124] L. Carvalho, J. Stühmer, J. S. Bois, Y. Kalaidzidis, V. Lecaudy and C. P. Heisenberg,
Control of convergent yolk syncytial layer nuclear movement in zebrafish,

[J125] T. Brox, O. Kleinschmidt and D. Cremers,
Efficient Nonlocal Means for Denoising of Textural Patterns,

[J126] D. Cremers,
Nonlinear Dynamical Shape Priors for Level Set Segmentation,

[J127] H. Jin, D. Cremers, D. Wang, A. Yezzi, E. Prados and S. Soatto,
3-D Reconstruction of Shaded Objects from Multiple Images Under Unknown Illumination,

[J128] C. Michel, M. T. Elm, S. D. Baranovskii, P. Thomas, W. Heimbrectl, B. Goldluecke and 
P. J. Klar,
Influence of non-random incorporation of Mn ions on the magnetotransport properties of Ga$_{1-x}$Mn$_x$As alloys,

[J129] C. Michel, M. T. Elm, B. Goldluecke, S. D. Baranovskii, P. Thomas, W. Heimbrectl and 
P. J. Klar,
Tailoring the magnetoresistance of MnAs/GaAs:Mn granular hybrid nanostructures,
[J130] R. Kümmerle, R. Triebel, P.Pfaff and W. Burgard,
Monte Carlo localization in outdoor terrains using multilevel surface maps,

[J131] S. Behnke and J. Stueckler,
Hierarchical Reactive Control for Humanoid Soccer Robots,

[J132] T. Pock, M. Pock and H. Bischof,
Algorithmic Differentiation: Application to Variational Problems in Computer Vision,

[J133] B. Rosenhahn, T. Brox and J. Weickert,
Three-dimensional shape knowledge for joint image segmentation and pose tracking,

[J134] Y.-J. Kim, T. Brox, W. Feiden and J. Weickert,
Fully automated segmentation and morphometrical analysis of muscle fibre images,

[J135] D. Cremers,
Computer Lernen Sehen,

[J136] D. Cremers, M. Rousson and R. Deriche,
A review of statistical approaches to level set segmentation: integrating color, texture, motion and shape,

[J137] B. Goldluecke, I. Ihrke, C. Linz and M. Magnor,
Weighted Minimal Hypersurface Reconstruction,

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[J139] O. M Mozos, R. Triebel, P. Jensfelt, A. Rottmann and W. Burgard,
Supervised semantic labeling of places using information extracted from sensor data,

[J140] P. Pfaff, R. Triebel and W. Burgard,
An Efficient Extension to Elevation Maps for Outdoor Terrain Mapping and Loop Closing,
[J141] H. Andreasson, R. Triebel and A. Lilienthal,
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[J142] T. Brox and J. Weickert,
Level Set Segmentation with Multiple Regions,

[J143] T. Brox and J. Weickert,
A TV flow based local scale estimate and its application to texture discrimina-
tion,

[J144] D. Cremers,
Dynamical statistical shape priors for level set based tracking,

[J145] D. Cremers, S. J. Osher and S. Soatto,
Kernel density estimation and intrinsic alignment for shape priors in level set
segmentation,

[J146] D. Cremers, N. Sochen and C. Schnörr,
A multiphase dynamic labeling model for variational recognition-driven image
segmentation,

[J147] S. Manay, D. Cremers, B.-W. Hong, A. Yezzi and S. Soatto,
Integral invariants for shape matching,

[J148] N. Papenberg, A. Bruhn, T. Brox, S. Didas and J. Weickert,
Highly accurate optic flow computation with theoretically justified warping,

[J149] T. Brox, J. Weickert, B. Burgeth and P. Mrazek,
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[J150] M. Breus, T. Brox, A. Bürgel, T. Sonar and J. Weickert,
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of traditional band transport,
[J153] D. Cremers and S. Soatto,
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[J155] G. Steidl, J. Weickert, T. Brox, P. Mrazek and M. Welk,
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[J156] D. Cremers, T. Kohlberger and C. Schnörr,
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[J157] D. Cremers and C. Schnörr,
**Statistical shape knowledge in variational motion segmentation**,  

[J158] J. Keuchel, C. Schnörr, C. Schellewald and D. Cremers,
**Binary partitioning, perceptual grouping, and restoration with semidefinite programming**,  

[J159] D. Cremers and A. V. M. Herz,
**Travelling waves of exitation in neural field models: Equivalence of rate descriptions and integrate-and-fire dynamics**,  

[J160] D. Cremers, F. Tischhäuser, J. Weickert and C. Schnörr,
**Diffusion Snakes: Introducing statistical shape knowledge into the Mumford–Shah functional**,  

[J161] D. Cremers and A. Mielke,
**Flow equations for the Héon-Heiles Hamiltonian**,  

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[B1] E: D. Cremers, I. Reid, H. Saito and M.-S. Yang,  
**Computer Vision: ACCV 2014**,  
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[B2] J. Sturm,
**Approaches to Probabilistic Model Learning for Mobile Manipulation Robots**,  
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[B3] GE: Y. Boykov, F. Kahl, V. Lempitsky and F. R. Schmidt,
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[B4] A. Wedel and D. Cremers,
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[B5] E: Y. Boykov, F. Kahl, V. Lempitsky and F. R. Schmidt,
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[B8] E: D. Cremers, B. Rosenhahn, A. L. Yuille and F. R. Schmidt,
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Springer 2009.

[B9] E: S.-C. Zhu, A. Yuille, D. Cremers and Y. Wang,
Energy Minimization Methods for Computer Vision and Pattern Recognition
(EMMCVPR),

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

[BC2] D. Cremers,
Image Segmentation with Shape Priors: Explicit Versus Implicit Representations,

Skeleton-Based Recognition of Shapes in Images via Longest Path Matching,

[BC4] V. Golkov, J. M. Portegies, A. Golkov, R. Duits and D. Cremers,
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Computational Diffusion MRI, Munich, Germany, Springer, oct 2015, Book Chapter, and Oral Presentation at MICCAI 2015 Workshop on Computational Diffusion MRI.
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[BC6] M. Klodt, F. Steinbruecker and D. Cremers,
Moment Constraints in Convex Optimization for Segmentation and Tracking,

A Game-Theoretic Approach to Pairwise Clustering and Matching,

[BC8] J. Sturm, C. Plagemann and W. Burgard,
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[BC9] M. Schikora, W. Koch, R. L. Streit and D. Cremers,
A Sequential Monte Carlo Method for Multi-Target Tracking with the Intensity Filter,

[BC10] D. Cremers, T. Pock, K. Kolev and A. Chambolle,
Convex Relaxation Techniques for Segmentation, Stereo and Multiview Reconstruction,

[BC11] D. Cremers,
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[BC12] A. Chambolle, V. Caselles, D. Cremers, M. Novaga and T. Pock,
An Introduction to Total Variation for Image Analysis,

[BC13] T. Brox, B. Rosenhahn and D. Cremers,
Contours, optic flow, and prior knowledge: cues for capturing 3D human motion in videos,

Tracking clothed people,

[BC15] D. Cremers and M. Rousson,
Efficient kernel density estimation of shape and intensity priors for level set segmentation,
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Adaptive structure tensors and their applications,

[BC17] D. Cremers and T. Kohlberger,
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[C1] T. Frerix, D. Kochkov, J. Smith, D. Cremers, M. Brenner and S. Hoyer,
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[C2] F. Wimbauer, N. Yang, L. von Stumberg, N. Zeller and D Cremers,
MonoRec: Semi-Supervised Dense Reconstruction in Dynamic Environments from a Single Moving Camera,

[C3] T Yenamandra, A Tewari, F Bernard, HP Seidel, M Elgharib, D Cremers and C Theobalt,
3DMM: Deep Implicit 3D Morphable Model of Human Heads,
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[C17] N Demmel, C Sommer, D Cremers and V Usenko, **Square Root Bundle Adjustment for Large-Scale Reconstruction**, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.


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[C24] R. Wang, N. Yang, J. Stueckler and D. Cremers, 
DirectShape: Photometric Alignment of Shape Priors for Visual Vehicle Pose and Shape Estimation, 

[C25] M. Eisenberger, Z. Lähner and D. Cremers, 
Smooth Shells: Multi-Scale Shape Registration with Functional Maps, 
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[C26] M. Eisenberger and D. Cremers, 
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European Conference on Computer Vision (ECCV), 2020, Spotlight Presentation.

[C27] M. Eisenberger, A. Toker, L. Leal-Taixe and D. Cremers, 
Deep Shells: Unsupervised Shape Correspondence with Optimal Transport, 

[C28] S. Weiss, R. Maier, D. Cremers, R. Westermann and N. Thuey, 
Correspondence-Free Material Reconstruction using Sparse Surface Constraints, 

[C29] C. Sommer, V. Usenko, D. Schubert, N. Demmel and D. Cremers, 
Efficient Derivative Computation for Cumulative B-Splines on Lie Groups, 

[C30] N. Yang, L. von Stumberg, R. Wang and D. Cremers, 
D3VO: Deep Depth, Deep Pose and Deep Uncertainty for Monocular Visual Odometry, 

[C31] A. Fontan-Villacampa, J. Civera and R. Triebel, 
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[C33] J. Wenger, H. Kjellström and R. Triebel, 
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[C34] J. Lee, R. Balachandran, Y. Sarkisov, M. D Stefano, A. Coelho, K. Shinde, M. J. Kim, R. Triebel and K. Kondak, 
Visual-Inertial Telepresence for Aerial Manipulation, 
[C35] Z. Ye, T. Möllenhoff, T. Wu and D. Cremers,
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[C36] J. Lee, M. Humt, J. Feng and R. Triebel,
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[C39] J. Du, R. Wang and D. Cremers,
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[C41] C. Gentil, M. Vayugundla, R. Giubilato, W. Stürzl, T. A. Vidal-Calleja and R. Triebel,
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[C43] L. Koestler, N. Yang, R. Wang and D. Cremers,
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[C45] M. Aygün, Z. Lähner and D. Cremers,
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[C46] W. Boerdijk, M. Sundermeyer, M. Durner and R. Triebel,
Self-Supervised Object-in-Gripper Segmentation from Robotic Motions,
*Conference on Robot Learning (CoRL)*, 2020.
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[C68] M. Moeller, T. Möllenhoff and D. Cremers, **Controlling Neural Networks via Energy Dissipation**, *International Conference on Computer Vision (ICCV)*, Seoul, South Korea, 10 2019.

[C70] S. Weiss, R. Maier, R. Westermann, D. Cremers and N. Thuerey, 
Sparse Surface Constraints for Combining Physics-based Elasticity Simulation 
and Correspondence-Free Object Reconstruction, 

[C71] P. Brechet, T. Wu, T. Möllenhoff and D. Cremers, 
Informative GANs via Structured Regularization of Optimal Transport, 

[C72] F. Steidle, W. Stürzl and R. Triebel, 
Visual-inertial sensor fusion with a bio-inspired polarization compass for navigation of MAVs, 
11th International Micro Air Vehicle Competition and Conference (IMAV), 2019.

[C73] J. Feng, M. Durner, Z.-C. Marton, F. Balint-Benczedi and R. Triebel, 
Introspective Robot Perception using Smoothed Predictions from Bayesian Neural Networks, 

[C74] R. Henschel, L. Leal-Taixe, D. Cremers and B. Rosenhahn, 
Fusion of Head and Full-Body Detectors for Multi-Object Tracking, 

[C75] C. Sommer and D. Cremers, 
Joint Representation of Primitive and Non-primitive Objects for 3D Vision, 

[C76] C. Hazirbas, S. G. Soyer, M. C. Staab, L. Leal-Taixe and D. Cremers, 
Deep Depth From Focus, 
Asian Conference on Computer Vision (ACCV), December 2018.

[C77] B. Haefner, Y. Queau, T. Möllenhoff and D. Cremers, 
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading, 

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

[C79] C Domokos, FR. Schmidt and D Cremers, 
MRF Optimization with Separable Convex Prior on Partially Ordered Labels, 
[C80] 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.

[C81] 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.

[C82] R Scona, M Jaimez, YR. Petillot, M Fallon and D Cremers,
StaticFusion: Background Reconstruction for Dense RGB-D SLAM in Dynamic Environments,

[C83] 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,

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[C85] B. T. Do, V. Golkov, G. E. Gürel and D. Cremers,
Precursor microRNA Identification Using Deep Convolutional Neural Networks,

[C86] P. Haeusser, J. Plapp, V. Golkov, E. Aljalbout and D. Cremers,
Associative Deep Clustering - Training a Classification Network with no Labels,
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[C87] T. Frerix, T. Möllenhoff, M. Moeller and D. Cremers,
Proximal Backpropagation,

Semantic Labeling of Indoor Environments from 3D RGB Maps,

[C89] L. von Stumberg, V. Usenko and D. Cremers,
Direct Sparse Visual-Inertial Odometry using Dynamic Marginalization,
International Conference on Robotics and Automation (ICRA), May 2018.

[C90] D. Schubert, T. Goll, N. Demmel, V. Usenko, J. Stueckler and D. Cremers,
The TUM VI Benchmark for Evaluating Visual-Inertial Odometry,
X. Gao, R. Wang, N. Demmel and D. Cremers, 
**LDSO: Direct Sparse Odometry with Loop Closure**, 

Z. Lähner, D. Cremers and T. Tung, 
**DeepWrinkles: Accurate and Realistic Clothing Modeling**, 

N. Yang, R. Wang, J. Stueckler and D. Cremers, 

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**Direct Sparse Odometry With Rolling Shutter**, 

V. Usenko, N. Demmel and D. Cremers, 
**The Double Sphere Camera Model**, 

M. Sundermeyer, Z. Marton, M. Durner, M. Brucker and R. Triebel, 
**Implicit 3D Orientation Learning for 6D Object Detection from RGB Images**, 
*European Conference on Computer Vision (ECCV)*, September 2018, Best Paper Award.

M. Denninger and R. Triebel, 
**Persistent Anytime Learning of Objects from Unseen Classes**, 

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

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

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.

M. Brucker, M. Durner, Z.-C. Marton, F. Balint-Benczedi, M. Sundermeyer and R. Triebel, 
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[C102] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel, 
**Simultaneous Calibration and Mapping,**

[C103] 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.

[C104] M. Benning, M. Möller, R. Z. Nossek, M. Burger, D. Cremers and G. Gilboa,
**Nonlinear Spectral Image Fusion,**

[C105] D. Bender, W. Koch and D. Cremers,
**Map-based drone homing using shortcuts,**

[C106] G. Kuschik, A. Bozic and D. Cremers,
**Real-time variational stereo reconstruction with applications to large-scale dense SLAM,**

[C107] 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.

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**An Efficient Background Term for 3D Reconstruction and Tracking with Smooth Subdivision Surface Models,**

[C109] L. Ma, J. Stueckler, C. Kerl and D. Cremers,
**Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D Cameras,**

[C110] M. Vestner, R. Litman, E. Rodola, A. Bronstein and D. Cremers,
**Product Manifold Filter: Non-Rigid Shape Correspondence via Kernel Density Estimation in the Product Space,**

[C111] M. Dzitsiuk, J. Sturm, R. Maier, L. Ma and D. Cremers,
**De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using Plane Priors,**
[C112] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers,
From Monocular SLAM to Autonomous Drone Exploration,
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Image-based localization using LSTMs for structured feature correlation,

[C114] J.C. Peeken, C. Knie, V. Golkov, K. Kessel, F. Pasa, Q. Khan, M. Seroglavov, J. Kukacka,
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,

[C115] Y. Queau, M. Pizenberg, J.-D. Durou and D. Cremers,
Microgeometry capture and RGB albedo estimation by photometric stereo without demosaicing,
International Conference on Quality Control by Artificial Vision (QCAV), 2017.

[C116] P. Haeusser, A. Mordvintsev and D. Cremers,
Learning by Association - A versatile semi-supervised training method for neural networks,

[C117] M. Slavcheva, M. Baust, D. Cremers and S. Ilic,
KillingFusion: Non-rigid 3D Reconstruction without Correspondences,

[C118] 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,
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[C119] Y. Queau, T. Wu, F. Lauze, J.-D. Durou and D. Cremers,
A Non-Convex Variational Approach to Photometric Stereo under Inaccurate Lighting,

[C120] T. Meinhardt, M. Moeller, C. Hazirbas and D. Cremers,
Learning Proximal Operators: Using Denoising Networks for Regularizing Inverse Imaging Problems,

[C121] S. Caelles, K.-K. Maninis, J. Pont-Tuset, L. Leal-Taixe, D. Cremers and L. V Gool,
One-Shot Video Object Segmentation,

[C122] Y. Queau, J. Melou, J.-D. Durou and D. Cremers,
Dense Multi-view 3D-reconstruction Without Dense Correspondences,


[C134] M Ullrich, H Ali, M Durner, ZC Marton and R Triebel,  
Selecting CNN Features for Online Learning of 3D Objects,  

[C135] C Nissler, ZC Marton, H Kisner, U Thomas and R Triebel,  
A Method for Hand-Eye and Camera-to-Camera Calibration for Limited Fields of View,  

[C136] TS Wang, ZC Marton, M Brucker and R Triebel,  
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Conference on Robot Learning (CoRL), 2017.

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International Conference on Advanced Robotics (ICAR), 2017.

[C138] Y. Queau, J. Melou, F. Castan, D. Cremers and J.-D. Durou,  
A Variational Approach to Shape-from-shading Under Natural Illumination,  

[C139] F. Bernard, F. R. Schmidt, J. Thunberg and D. Cremers,  
A Combinatorial Solution to Non-Rigid 3D Shape-to-Image Matching,  

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Semi-Supervised Deep Learning for Monocular Depth Map Prediction,  

[C141] A. Kasyanov, F. Engelmann, J. Stueckler and B. Leibe,  
Keyframe-Based Visual-Inertial Online SLAM with Relocalization,  

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SAMP: Shape and Motion Priors for 4D Vehicle Reconstruction,  

[C143] L. Cosmo, A. Albarelli, F. Bergamasco, A. Torsello, E. Rodola and D. Cremers,  
A game-theoretical approach for joint matching of multiple feature throughout unordered images,  

[C144] M. Jaimez, J. G. Monroy and J. Gonzalez-Jimenez,  
Planar Odometry from a Radial Laser Scanner. A Range Flow-based Approach,  
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[C145] N. Mayer, E. Ilg, P. Häusser, P. Fischer, D. Cremers, A. Dosovitskiy and T. Brox,  
A Large Dataset to Train Convolutional Networks for Disparity, Optical Flow, and Scene Flow Estimation,  


[C158] D. Bender, D. Cremers and W. Koch,
A position free boresight calibration for INS-camera systems,
2016 IEEE International Conference on Multisensor Fusion and Integration for Intelligent

[C159] I. Chiotellis, R. Triebel, T. Windheuser and D. Cremers,
Non-Rigid 3D Shape Retrieval via Large Margin Nearest Neighbor Embedding,
European Conference on Computer Vision (ECCV), October 2016.

[C160] T. Windheuser and D. Cremers,
A Convex Solution to Spatially-Regularized Correspondence Problems,
European Conference on Computer Vision (ECCV), October 2016.

[C161] S. Sharifzadeh, I. Chiotellis, R. Triebel and D. Cremers,
Learning to Drive using Inverse Reinforcement Learning and Deep Q-Networks,
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[C162] D. Bender, F. Rouatbi, M. Schikora, D. Cremers and W. Koch,
Scaling the world of monocular SLAM with INS-measurements for UAS navigation,
19th International Conference on Information Fusion, FUSION 2016, Heidelberg, Germa-
y, July 5-8, 2016, IEEE, 1493-1500, 2016.

[C163] 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.

[C164] D. Kochanov, A. Osep, J. Stueckler and B. Leibe,
Scene Flow Propagation for Semantic Mapping and Object Discovery in Dy-
 namic Street Scenes,

[C165] 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.

[C166] M. Moeller, J. Diebold, G. Gilboa and D. Cremers,
Learning Nonlinear Spectral Filters for Color Image Reconstruction,
IEEE International Conference on Computer Vision (ICCV), 2015.

[C167] J. Diebold, N. Demmel, C. Hazirbas, M. Möller and D. Cremers,
Interactive Multi-label Segmentation of RGB-D Images,
Scale Space and Variational Methods in Computer Vision (SSVM), june 2015.

[C168] C. Hazirbas, J. Diebold and D. Cremers,
Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Seg-
mentation,
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sentation.


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[C180] A. Dosovitskiy, P. Fischer, E. Ilg, P. Haeusser, C. Hazirbas, V. Golkov, P. van der Smagt, D. Cremers and T. Brox, 
FlowNet: Learning Optical Flow with Convolutional Networks, 
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SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports, 

[C182] D. Holz, A. Topalidou-Kyniazopoulou, J. Stueckler and S. Behnke, 
Real-Time Object Detection, Localization and Verification for Fast Robotic Depalletizing, 

[C183] J. Engel, J. Stueckler and D. Cremers, 
Large-Scale Direct SLAM with Stereo Cameras, 

[C184] D. Caruso, J. Engel and D. Cremers, 
Large-Scale Direct SLAM for Omnidirectional Cameras, 

[C185] Y. Tao, R. Triebel and D. Cremers, 
Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams, 

[C186] R. Maier, J. Stueckler and D. Cremers, 
Super-Resolution Keyframe Fusion for 3D Modeling with High-Quality Textures, 
International Conference on 3D Vision (3DV), October 2015.

[C187] V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
Reconstructing Street-Scenes in Real-Time From a Driving Car, 

[C188] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers, 
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[C189] E. Rodola, M. Moeller and D. Cremers,
Point-wise Map Recovery and Refinement from Functional Correspondence,
Proceedings Vision, Modeling and Visualization (VMV), Aachen, Germany, 2015, Received the Best Paper Award.

[C190] C. Kerl, J. Stueckler and D. Cremers,
Dense Continuous-Time Tracking and Mapping with Rolling Shutter RGB-D Cameras,
IEEE International Conference on Computer Vision (ICCV), Santiago, Chile, 2015.

[C191] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
Entropy Minimization for Convex Relaxation Approaches,
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[C192] F. Stark, C. Hazirbas, R. Triebel and D. Cremers,
CAPTCHA Recognition with Active Deep Learning,
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[C193] N. Nagaraja, F. R. Schmidt and T. Brox,
Video Segmentation with Just a Few Strokes,
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Model-Based Tracking at 300Hz using Raw Time-of-Flight Observations,
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[C195] J. Duran, M. Moeller, C. Sbert and D. Cremers,
A Novel Framework for Nonlocal Vectorial Total Variation Based on \( \ell^{p,q,r} \) norms,

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

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

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V. Golkov, M.I. Menzel, T. Sprenger, A. Haase, D. Cremers and J.I. Sperl,
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of Edges in Similar Diffusion-Weighted Images,
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Improved Diffusion Kurtosis Imaging and Direct Propagator Estimation Using
6-D Compressed Sensing,

D. B. AD. CJI. C D. Weikersdorfer,
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Dense Non-Rigid Shape Correspondence Using Random Forests,

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Sequential Convex Relaxation for Mutual-Information-Based Unsupervised
Figure-Ground Segmentation,

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

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

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

T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers,
Optimal Intrinsic Descriptors for Non-Rigid Shape Analysis,
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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,
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[C211] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers,
Spatial and Temporal Interpolation of Multi-View Image Sequences,
*German Conference on Pattern Recognition (GCPR)*, Münster, Germany, Vol. 36, sep 2014.

[C212] M. R. Oswald and D. Cremers,
Surface Normal Integration for Convex Space-time Multi-view Reconstruction,

[C213] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers,
Co-Sparse Textural Similarity for Interactive Segmentation,

[C214] M. R. Oswald, J. Stühmer and D. Cremers,
Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction,

[C215] E. Strekalovskiy and D. Cremers,
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,

[C216] A. Kanezaki, E. Rodola and T. Harada,
RGB-D [RGB-D gazou kara no buttai kenshutsu ni okeru taiou tenshuugou ruijido no gakushuu],

[C217] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
[Taiou tenshuugou ruijido gakushuu wo mochiita goutai-higoutai buttai kenshutsu],

[C218] M. Andreux, E. Rodola, M. Aubry and D. Cremers,
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Sixth Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment (NORDIA), 2014.

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Visual-Inertial Navigation for a Camera-Equipped 25g Nano-Quadrotor,

[C220] R. Triebel, J. Stühmer, M. Souiai and D. Cremers,
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*German Conference on Pattern Recognition*, 2014.

[C221] S. Debnath, S. S. Baishya, R. Triebel, V. Dutt and D. Cremers,
Environment-adaptive Learning: How Clustering Helps to Obtain Good Training Data,

[C222] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
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[C223] D. Bender, M. Schikora, J. Sturm and D. Cremers,
INS-Camera Calibration without Ground Control Points,
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[C224] C. Kerl, M. Souiai, J. Sturm and D. Cremers,
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras,
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[C225] J. Stueckler and S. Behnke,
Adaptive Tool-Use Strategies for Anthropomorphic Service Robots,

[C226] D. Droeschel, J. Stueckler and S. Behnke,
Local Multi-Resolution Surfel Grids for MAV Motion Estimation and 3D Mapping,

[C227] 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, jun 2014.

[C228] J. Stueckler and S. Behnke,
Efficient deformable registration of multi-resolution surfel maps for object manipulation skill transfer,

[C229] 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.

[C230] M. Schwarz, J. Stueckler and S. Behnke,
Mobile Teleoperation Interfaces with Adjustable Autonomy for Personal Service Robots,

[C231] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,
Dense Elastic 3D Shape Matching,

[C232] J Bergbauer and S Tari,
Wimmelbild Analysis with Approximate Curvature Coding Distance Images,
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[C233] J Bergbauer and S Tari,
Top-down visual search in Wimmelbild,

[C234] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
Can a fully unconstrained imaging model be applied effectively to central cameras?,

[C235] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
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[C236] J. Bergbauer, C. Nieuwenhuis, M. Souiai and D. Cremers,
Proximity Priors for Variational Semantic Segmentation and Recognition,
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[C237] V. Golkov, T. Sprenger, A. Menini, M.I. Menzel, D. Cremers and J.I. Sperl,
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[C238] 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,
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[C239] V. Golkov, M.I. Menzel, T. Sprenger, A. Menini, D. Cremers and J.I. Sperl,
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[C240] 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,

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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, 

[C244] C. Kerl, J. Sturm and D. Cremers, 
Robust Odometry Estimation for RGB-D Cameras, 

[C245] E. Toeppe, C. Nieuwenhuis and D. Cremers, 
Volume Constraints for Single View Reconstruction, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Portland, USA, 2013.

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

Knowing When We Don’t Know: Introspective Classification for Mission-Critical Decision Making, 

[C248] A. SD. C D. Weikersdorfer, 
Depth-adative Supervoxels for RGB-D Video Segmentation, 

[C249] R. Triebel, H. Grimmett and I. Posner, 
Confidence Boosting: Improving the Introspectiveness of a Boosted Classifier for Efficient Learning, 

Introspective Active Learning for Scalable Semantic Mapping, 

[C251] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers, 
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions, 

[C252] 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.
[C253] J. Sturm and W. Burgard, 
Learning Probabilistic Models for Mobile Manipulation Robots, 
Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), Track on Best papers in Sister Conferences, 2013.

[C254] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers, 
A Co-occurrence Prior for Continuous Multi-Label Optimization, 

[C255] F. Stangl, M. Souiai and D. Cremers, 
Performance Evaluation of Narrow Band Methods for Variational Stereo, 
35th German Conference on Pattern Recognition (GCPR), 2013.

[C256] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers, 
Efficient Convex Optimization for Minimal Partition Problems with Volume Constraints, 

[C257] C. Kerl, J. Sturm and D. Cremers, 
Dense Visual SLAM for RGB-D Cameras, 

[C258] T. Naseer, J. Sturm and D. Cremers, 
FollowMe: Person Following and Gesture Recognition with a Quadrocopter, 

[C259] 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.

[C260] 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.

[C261] 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.

[C262] 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 2013.

[C263] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers, 
Efficient Shape Matching using Vector Extrapolation, 

[C264] J. Engel, J. Sturm and D. Cremers, 
Semi-Dense Visual Odometry for a Monocular Camera, 
IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, December 2013.
E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,
**Elastic Net Constraints for Shape Matching**, 
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J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
**Total Variation Regularization for Functions with Values in a Manifold**, 
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
**Proportion Priors for Image Sequence Segmentation**, 
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

J. Stühmer, P. Schröder and D. Cremers,
**Tree Shape Priors with Connectivity Constraints using Convex Relaxation on General Graphs**, 
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013, **Oral Presentation**.

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.

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.

F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
**Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences**, 
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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.

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**, 
[C276] J. Stueckler and S. Behnke,
Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,

[C277] M. McElhone, J. Stueckler and S. Behnke,
Joint detection and pose tracking of multi-resolution surfel models in RGB-D,

[C278] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
Distinctive 3D surface entropy features for place recognition.,

[C279] A. Berner, J Li, D. Holz, J. Stueckler, S. Behnke and R. Klein,
Combining contour and shape primitives for object detection and pose estimation of prefabricated parts,

[C280] J. Stueckler and S. Behnke,
Hierarchical Object Discovery and Dense Modelling From Motion Cues in RGB-D Video,

[C281] M. Nieuwenhuisen, D. Droeschel, D. Holz, J. Stueckler, A. Berner, J Li, R. Klein and S. Behnke,
Mobile bin picking with an anthropomorphic service robot,

[C282] L. Gorelick, F. R. Schmidt and Y. Boykov,
Fast Trust Region for Segmentation,

[C283] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald,
Planar simplification and texturing of dense point cloud maps,

[C284] E. Rodola, A.M. Bronstein, A. Albarelli, F. Bergamasco and A. Torsello,
A game-theoretic approach to deformable shape matching,

[C285] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
An Evaluation of the RGB-D SLAM System,

[C286] T. Ruehr, J. Sturm, D. Pangercic, M. Beetz and D. Cremers,
A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,
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[C287] D Joho, GD Tipaldi, N Engelhard, C Stachniss and W Burgard,
Nonparametric Bayesian Models for Unsupervised Scene Analysis and Reconstruction,

[C288] M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit,
Box-Particle Intensity Filter,

[C289] 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.

[C290] L. Zhang, J. Sturm, D. Cremers and D. Lee,
Real-Time Human Motion Tracking using Multiple Depth Cameras,

[C291] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Nonmetric Priors for Continuous Multilabel Optimization,

[C292] T. Windheuser, H. Ishikawa and D. Cremers,
Generalized Roof Duality for Multi-Label Optimization: Optimal Lower Bounds and Persistency,
European Conference on Computer Vision (ECCV), Firenze, Italy, oct 2012.

[C293] T. Windheuser, H. Ishikawa and D. Cremers,
QPBO [QPBO arugorizumu no tachika ni yoru hiretsu mojura enerugi saishoka],
Meeting on Image Recognition and Understanding, Fukuoka, Japan, aug 2012.

[C294] M. R. Oswald, E. Toeppe and D. Cremers,
Fast and Globally Optimal Single View Reconstruction of Curved Objects,
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Providence, Rhode Island, 534-541, jun 2012.

[C295] E. Strekalovskiy, A. Chambolle and D. Cremers,
A Convex Representation for the Vectorial Mumford-Shah Functional,
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Providence, Rhode Island, jun 2012.

[C296] J. Engel, J. Sturm and D. Cremers,
Camera-Based Navigation of a Low-Cost Quadrocopter,

[C297] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
A Benchmark for the Evaluation of RGB-D SLAM Systems,

[C298] J. Engel, J. Sturm and D. Cremers,
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing,
[C299] 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,

Comparison of Diffusion Kurtosis Tensor Estimation Methods in an Advanced Quality Assessment Framework,

[C302] 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,

[C305] 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, nov 2012.

[C306] J. Stueckler, N. Biresev and S. Behnke,
Semantic mapping using object-class segmentation of RGB-D images,

[C307] 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, sep 2012.
[C308] S. Muszynski, J. Stueckler and S. Behnke,
Adjustable autonomy for mobile teleoperation of personal service robots,
Proc. of the IEEE Int. Symp. on Robot and Human Interactive Communication, 933-940, sep 2012.

[C309] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
SURE: Surface Entropy for Distinctive 3D Features,

[C310] G. M. Garcia, D. A. Klein, J. Stueckler, S. Frintrop and A. B. Cremers,
Adaptive Multi-cue 3D Tracking of Arbitrary Objects,

[C311] J. Stueckler and S. Behnke,

[C312] M. Nieuwenhuisen, J. Stueckler, A. Berner, R. Klein and S. Behnke,
Shape-Primitive Based Object Recognition and Grasping,

[C313] J. Kläs, J. Stueckler and S. Behnke,
Efficient Mobile Robot Navigation using 3D Surfel Grid Maps,

[C314] J. Stueckler and S. Behnke,
Robust Real-Time Registration of RGB-D Images using Multi-Resolution Surfel Representations,

[C315] V. Usenko, F. Seidel, Z. Marton, D. Pangeric and M. Beetz,
Furniture Classification using WWW CAD Models,

[C316] F. R. Schmidt and Y. Boykov,
Hausdorff Distance Constraint for Multi-Surface Segmentation,

[C317] L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward,
Segmentation with non-linear regional constraints via line-search cuts,

[C318] A. Torsello, E. Rodola and A. Albarelli,
Multiview Registration via Graph Diffusion of Dual Quaternions,

[C319] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
RUNE-Tag: a High Accuracy Fiducial Marker with Strong Occlusion Resilience,
[C320] 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.

[C321] 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.

[C322] T. Windheuser, U. Schlickewei, F. R. Schmidt and D. Cremers, 
Geometrically Consistent Elastic Matching of 3D Shapes: A Linear Programming Solution, 
IEEE International Conference on Computer Vision (ICCV), 2011.

[C323] M. Aubry, U. Schlickewei and D. Cremers, 
Pose-Consistent 3D Shape Segmentation Based on a Quantum Mechanical Feature Descriptor, 

[C324] T. Schoenemann, S. Masnou and D. Cremers, 
On a linear programming approach to the discrete Willmore boundary value problem and generalizations, 

[C325] E. Strekalovskiy and D. Cremers, 
Total Variation for Cyclic Structures: Convex Relaxation and Efficient Minimization, 

[C326] B. Goldluecke and D. Cremers, 
Introducing Total Curvature for Image Processing, 
IEEE International Conference on Computer Vision (ICCV), 2011.

[C327] E. Strekalovskiy, B. Goldluecke and D. Cremers, 
Tight Convex Relaxations for Vector-Valued Labeling Problems, 
IEEE International Conference on Computer Vision (ICCV), 2011.

[C328] M. Aubry, K. Kolev, B. Goldluecke and D. Cremers, 
Decoupling Photometry and Geometry in Dense Variational Camera Calibration, 
IEEE International Conference on Computer Vision (ICCV), 2011.

[C329] E. Strekalovskiy and D. Cremers, 
Generalized Ordering Constraints for Multilabel Optimization, 
IEEE International Conference on Computer Vision (ICCV), 2011.

[C330] 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.
[C331] N. Engelhard, F. Endres, J. Hess, J. Sturm and W. Burgard, 
Real-time 3D visual SLAM with a hand-held camera, 

Towards a benchmark for RGB-D SLAM evaluation, 

[C333] C. Nieuwenhuis, E. Toeppe and D. Cremers, 
Space-Varying Color Distributions for Interactive Multiregion Segmentation: Discrete versus Continuous Approaches, 

[C334] M. Klodt and D. Cremers, 
A Convex Framework for Image Segmentation with Moment Constraints, 
IEEE International Conference on Computer Vision (ICCV), 2011.

[C335] M. Aubry, U. Schlickewei and D. Cremers, 
The Wave Kernel Signature: A Quantum Mechanical Approach To Shape Analysis, 
IEEE International Conference on Computer Vision (ICCV) - Workshop on Dynamic Shape Capture and Analysis (4DMOD), 2011.

[C336] F. Steinbruecker, J. Sturm and D. Cremers, 
Real-Time Visual Odometry from Dense RGB-D Images, 
Workshop on Live Dense Reconstruction with Moving Cameras at the Intl. Conf. on Computer Vision (ICCV), 2011.

Mobile Manipulation of Kitchen Containers, 
Proc. of the IROS’11 Workshop on Results, Challenges and Lessons Learned in Advancing Robots with a Common Platform, San Francisco, CA, USA, 2011.

[C338] M. Schikora, M. Oispuu, W. Koch and D. Cremers, 
Multiple Source Localization Based on Biased Bearings Using the Intensity Filter - Approach and Experimental Results, 
4th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing, San Juan, Puerto Rico, December 2011.

[C339] 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.

[C340] 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.
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[C341] M. Oispun and M. Schikora,
Multiple Emitter Localization Using a Realistic Airborne Array Sensor,
14th International Conference on Information Fusion (FUSION), Chicago, IL, USA, July 2011.

[C342] M. Schikora, W. Koch and D. Cremers,
Multi-object tracking via high accuracy optical flow and finite set statistics,
International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prag, Czech Republic, Mai 2011.

[C343] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
Silhouette-Based Variational Methods for Single View Reconstruction,

[C344] 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,

[C345] J. Shin, R. Triebel and R. Siegwart,
Unsupervised 3D Object Discovery and Categorization for Mobile Robots,

[C346] J. Maye, R. Triebel, L. Spinello and R. Siegwart,
Bayesian On-line Learning of Driving Behaviors,

[C347] B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke,
Efficient Multi-resolution Plane Segmentation of 3D Point Clouds,

[C348] J. Stueckler and S. Behnke,
Following human guidance to cooperatively carry a large object,

[C349] J. Stueckler, R. Steffens, D. Holz and S. Behnke,
Real-Time 3D Perception and Efficient Grasp Planning for Everyday Manipulation Tasks.,
Proc. of the European Conf. on Mobile Robots (ECMR), 177-182, 2011.

[C350] J. Stueckler and S. Behnke,
Compliant Task-Space Control with Back-Drivable Servo Actuators,

[C351] 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.
[C352] J. Stueckler and S. Behnke,
Interest point detection in depth images through scale-space surface analysis, 
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 3568-3574, may 2011.

[C353] D. Droeschel, J. Stueckler and S. Behnke,
Learning to Interpret Pointing Gestures with a Time-of-flight Camera,
Proceedings of the 6th International Conference on Human-robot Interaction, Advances in 

[C354] F. R. Schmidt, H. Ackermann and B. Rosenhahn,
Multilinear Model Estimation with L2-Regularization, 

[C355] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,
Interactive Segmentation with Super-Labels,

[C356] A. Albarelli, E. Rodola and A. Torsello,
Robust Camera Calibration using Inaccurate Targets, 

[C357] E. Rodola, A. Albarelli and A. Torsello,
A Game-Theoretic Approach to Robust Selection of Multi-View Point Correspondence, 
20th International Conference on Pattern Recognition (ICPR), 57-60, 2010.

[C358] A. Albarelli, E. Rodola, A. Cavallarin and A. Torsello,
Robust Figure Extraction on Textured Background: a Game-Theoretic Approach, 

[C359] E. Rodola, A. Albarelli and A. Torsello,
A Game-Theoretic Approach to the Enforcement of Global Consistency in Multi-View Feature Matching, 

[C360] A. Albarelli, E. Rodola and A. Torsello,
A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation, 

[C361] A. Albarelli, E. Rodola and A. Torsello,
Robust Game-Theoretic Inlier Selection for Bundle Adjustment, 
5th International Symposium on 3D Data Processing, Visualization and Transmission (3DPVT), 2010, Best Student Paper Award.

[C362] A. Albarelli, E. Rodola and A. Torsello,
Loosely Distinctive Features for Robust Surface Alignment, 
[C363] M. Schikora, A. Schikora, K.-H. Kogel, W. Koch and D. Cremers,
Probabilistic Classification of Disease Symptoms caused by Salmonella on Arabidopsis Plants,
5th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), Leipzig, Germany, September 2010.

([C364] M. Schikora, D. Bender, D. Cremers and W. Koch,
Passive Multi-Object Localization and Tracking Using Bearing Data,

([C365] M. Schikora, D. Bender, W. Koch and D. Cremers,
Multi-target multi-sensor localization and tracking using passive antenna and optical sensors on UAVs,

([C366] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
Image-based 3D Modeling via Cheeger Sets,
Asian Conference on Computer Vision, Queenstown, New Zealand, 53-64, Nov 2010, Received Honorable Mention Award.

([C367] J. Stühmer, S. Gunhold and D. Cremers,
Real-Time Dense Geometry from a Handheld Camera,
Pattern Recognition (Proc. DAGM), Darmstadt, Germany, 11-20, September 2010.

([C368] J. Stühmer, S. Gunhold and D. Cremers,
Parallel Generalized Thresholding Scheme for Live Dense Geometry from a Handheld Camera,
ECCV Workshop on Computer Vision on GPUs (CVGPU), Heraklion, Greece, September 2010.

([C369] B. Goldluecke and D. Cremers,
An Approach to Vectorial Total Variation based on Geometric Measure Theory,

([C370] B. Goldluecke and D. Cremers,
Convex Relaxation for Multilabel Problems with Product Label Spaces,

([C371] C. Nieuwenhuis and D. Kondermann,
Complex Motion Models for Simple Optical Flow Estimation,

([C372] C. Nieuwenhuis, B. Berkels and M. Rumpf,
Interactive Motion Segmentation,

([C373] J. Sturm, K. Konolige, C. Stachniss and W. Burgard,
3D Pose Estimation, Tracking and Model Learning of Articulated Objects from Dense Depth Video using Projected Texture Stereo,

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[C374] J. Sturm, K. Konolige, C. Stachniss and W. Burgard,
Vision-based Detection for Learning Articulation Models of Cabinet Doors and Drawers in Household Environments,

[C375] S. Chitta, M. Piccoli and J. Sturm,
Tactile Object Class and Internal State Recognition for Mobile Manipulation,

[C376] J. Sturm, A. Jain, C. Stachniss, C. C. Kemp and W. Burgard,
Operating Articulated Objects Based on Experience,

[C377] R. Kaestner, N. Engelhard, R. Triebel and R. Siegwart,
A Bayesian Approach to Learning 3D Representations of Dynamic Environments,

[C378] L. Spinello, R. Triebel, D. Vasquez, K. Arras and R. Siegwart,
Exploiting Repetitive Object Patterns for Model Compression and Completion,

[C379] R. Triebel, J. Shin and R. Siegwart,
Segmentation and Unsupervised Part-based Discovery of Repetitive Objects,

[C380] L. Spinello, K. O. Arras, R. Triebel and R. Siegwart,
A Layered Approach to People Detection in 3D Range Data,
special track on Physically Grounded AI of AAAI, 2010.

[C381] J. Shin, R. Triebel and R. Siegwart,
Unsupervised Discovery of Repetitive Objects,

[C382] J. Maye, L. Spinello, R. Triebel and R. Siegwart,
Inferring the Semantics of Direction Signs in Public Places,

[C383] K. Gräve, J. Stueckler and S. Behnke,
Improving imitated grasping motions through interactive expected deviation learning,
*Proc. of the 10th IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids)*, 397-404, dec 2010.

[C384] J. Stueckler and S. Behnke,
Combining depth and color cues for scale- and viewpoint-invariant object segmentation and recognition using Random Forests,
[C385] J. Stueckler and S. Behnke,
Improving People Awareness of Service Robots by Semantic Scene Knowledge,
del Solar, Javier Ruiz, Chown, Eric, Plöger and Paul-Gerhard(Eds.), RobuCup, Springer,

[C386] D. Holz, R. Schnabel, D. Droeschel, J. Stueckler and S. Behnke,
Towards Semantic Scene Analysis with Time-of-flight Cameras,
del Solar, Javier Ruiz, Chown, Eric, Plöger and Paul-Gerhard(Eds.), RobuCup, Springer,

[C387] H. Schulz, W. Liu, J. Stueckler and S. Behnke,
Utilizing the Structure of Field Lines for Efficient Soccer Robot Localization,
del Solar, Javier Ruiz, Chown, Eric, Plöger and Paul-Gerhard(Eds.), RobuCup, Springer,

[C388] K. Gräve, J. Stueckler and S. Behnke,
Learning Motion Skills from Expert Demonstrations and Own Experience using Gaussian Process Regression,

[C389] M. Nieuwenhuisen, J. Stueckler and S. Behnke,
Intuitive Multimodal Interaction for Domestic Service Robots,

[C390] M. Nieuwenhuisen, J. Stueckler and S. Behnke,
Improving indoor navigation of autonomous robots by an explicit representation of doors,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 4895-4901, may 2010.

[C391] D. Droeschel, D. Holz, J. Stueckler and S. Behnke,
Using Time-of-Flight cameras with active gaze control for 3D collision avoidance,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 4035-4040, may 2010.

[C392] L Mösenlechner, N Demmel and M Beetz,
Becoming action-aware through reasoning about logged plan execution traces,

[C393] A. Albarelli, E. Rodola, S. R Bulo and A. Torsello,
Fast 3D surface reconstruction by unambiguous compound phase coding,
the 2009 IEEE International Workshop on 3D Digital Imaging and Modeling (3DIM),

[C394] M. R. Oswald, E. Toeppe, K. Kolev and D. Cremers,
Non-Parametric Single View Reconstruction of Curved Objects using Convex Optimization,
Pattern Recognition (Proc. DAGM), Jena, Germany, 171-180, September 2009, Received a DAGM Paper Award.

[C395] F. R. Schmidt and D. Cremers,
A Closed-Form Solution for Image Sequence Segmentation with Dynamical Shape Priors,
Pattern Recognition (Proc. DAGM), Jena, Germany, September 2009.
[C396] F. R. Schmidt, E. Toeppe and D. Cremers, 
Efficient Planar Graph Cuts with Applications in Computer Vision, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Miami, Florida, 351-356, jun 2009, Received a CVPR Doctoral Spotlight Award.

[C397] T. Pock, A. Chambolle, H. Bischof and D. Cremers, 
A Convex Relaxation Approach for Computing Minimal Partitions, 

[C398] A. Wedel, C. Rabe, A. Meissner, U. Franke and D. Cremers, 
Detection and Segmentation of Independently Moving Objects from Dense Scene Flow, 

[C399] B. Goldluecke and D. Cremers, 
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[PhD2] V Usenko, 
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[M2] C Hazirbas,
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[M3] T Schöps,
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[M4] M. Shelley,
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