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[C31] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel,
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[C32] P. Wenzel, Q. Khan, D. Cremers and L. Leal-Taixe,
Modular Vehicle Control for Transferring Semantic Information Between Weather Conditions Using GANs,
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[C33] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,
[C34] I. Grixa, P. Schulz, W. Stürzl and R. Triebel,
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[C35] 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.

[C36] M. Denninger and R. Triebel,
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[C37] M. Jaimez, C. Kerl, J. Gonzalez-Jimenez and D. Cremers,
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[C39] L. Ma, J. Stueckler, C. Kerl and D. Cremers,
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[C40] Vestner, M., Litman, R., Rodola, E., Bronstein, A., Cremers and D.,
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From Monocular SLAM to Autonomous Drone Exploration,
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October 2017.

Establishment of an interdisciplinary workflow of machine learning-based Radiomics in sarcoma patients,
[C45] Queau, Y., Pizenberg, M., Durou, J.-D., Cremers and D.,
Microgeometry capture and RGB albedo estimation by photometric stereo
without demosaicing,

[C46] P. Haeusser, A. Mordvintsev and D. Cremers,
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October 2017.

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[C50] Queau, Y., Melou, J., Durou, J.-D., Cremers and D.,
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[C51] K. Kurach, S. Gelly, M. Jastrzebski, P. Haeusser, O. Teytaud, D. Vincent and O. Bousquet,
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[C56] Christian Nissler, Zoltan-Csaba Marton, Hannes Kisman, Ulrike Thomas and Rudolph Triebel,
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[C57] Tick Son Wang, Zoltan-Csaba Marton, Manuel Brucker and Rudolph Triebel,  
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A Large Dataset to Train Convolutional Networks for Disparity, Optical Flow, and Scene Flow Estimation,  
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[C83] C. Hazirbas, J. Diebold and D. Cremers,
Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Seg-
mentation, 2015.

[C84] A. Kanezaki, E. Rodola and T. Harada,
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tai kenshutsu] - Learning graph matching for object detection from RGB-D images,
20 - Robotics Symposia (RS), Karuizawa, Japan, March 2015.

[C85] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers,

[C86] M. Jaimez, M. Souiai, J. Gonzalez-Jimenez and D. Cremers,
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A Fast Projection Method for Connectivity Constraints in Image Segmentati-
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[C88] R. Mecca, E. Rodola and D. Cremers,
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[C89] 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 Re-
construction, 2015.

[C90] D. Mund, R. Triebel and D. Cremers,
Active Online Confidence Boosting for Efficient Object Classification,

kov, M. Czisch, P. Saemann, M.I. Menzel and B.H. Menze,
Using Diffusion and Structural MRI for the Automated Segmentation of Mul-
tiple Sclerosis Lesions, 2015.

[C92] M.I. Menzel, T. Sprenger, E.T. Tan, V. Golkov, C.J. Hardy, L. Marinelli and J.I. Sperl,
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[C93] A. Menini, V. Golkov and F. Wiesinger,
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[C105] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers,
Entropy Minimization for Convex Relaxation Approaches,
Santiago, Chile, 2015.

[C106] F. Stark, C. Hazirbas, R. Triebel and D. Cremers,
CAPTCHA Recognition with Active Deep Learning,
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[C107] N. Nagaraja, F. R. Schmidt and T. Brox,
Video Segmentation with Just a Few Strokes,
Santiago, Chile, Dec 2015.

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

Novel Acquisition Scheme for Diffusion Kurtosis Imaging Based on Compressed-Sensing Accelerated DSI Yielding Superior Image Quality,
2014.

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2014.

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

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

Improved Diffusion Kurtosis Imaging and Direct Propagator Estimation Using 6-D Compressed Sensing,
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[C114] D. Weikersdorfer, D. B. Adrian, D. Cremers and J. Conrad,
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2014.

[C115] F. Steinbruecker, J. Sturm and D. Cremers,
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Hongkong, China, 2014.

[C116] E. Rodola, S. Rota Bulo, T. Windheuser, M. Vestner and D. Cremers,
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Sequential Convex Relaxation for Mutual-Information-Based Unsupervised Figure-Ground Segmentation,
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[C118] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers,
Collision Avoidance for Quadrotors with a Monocular Camera,

[C119] J. Engel, T. Schöps and D. Cremers,
LSD-SLAM: Large-Scale Direct Monocular SLAM,
September 2014, Oral Presentation.

[C120] T. Schöps, J. Engel and D. Cremers,
Semi-Dense Visual Odometry for AR on a Smartphone,
September 2014, Best Short Paper Award.

[C121] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers,
Optimal Intrinsic Descriptors for Non-Rigid Shape Analysis,
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[C122] M. Strobel, J. Diebold and D. Cremers,
Flow and Color Inpainting for Video Completion,
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[C123] R. Maier, J. Sturm and D. Cremers,
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Münster, Germany, Vol. 36, September 2014.

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Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction,

[C128] E. Strekalovskiy and D. Cremers,
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,

[C129] A. Kanezaki, E. Rodola and T. Harada,
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[C130] A. Kanezaki, E. Rodola, D. Cremers and T. Harada, 
[Taiou tenshuugou ruijido gakushuu wo mochiita goutai-higoutai buttai kenshutsu],

[C131] 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.

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[C135] A. Kanezaki, E. Rodola, D. Cremers and T. Harada, 
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[C136] D. Bender, M. Schikora, J. Sturm and D. Cremers, 
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[C137] C. Kerl, M. Souiai, J. Sturm and D. Cremers, 
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras, 
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[C138] J. Stueckler and S. Behnke, 
Adaptive Tool-Use Strategies for Anthropomorphic Service Robots, 

[C139] D. Droeschel, J. Stueckler and S. Behnke, 
Local Multi-Resolution Surfel Grids for MAV Motion Estimation and 3D Mapping, 

[C140] J. Stueckler, A. Gutt and S. Behnke, 
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Proc. of the Joint 45th International Symposium on Robotics (ISR) and 8th German Conference on Robotics (ROBOTIK), to appear, June 2014.
[C141] J. Stueckler and S. Behnke,
Efficient deformable registration of multi-resolution surfel maps for object manipulation skill transfer,

[C142] D. Droeschel, J. Stueckler and S. Behnke,
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[C145] Bergbauer, Julia, Tari and Sibel,

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[C150] V. Golkov, T. Sprenger, A. Menini, M.I. Menzel, D. Cremers and J.I. Sperl,
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2013, Certificate of Merit Award.


[C162] R. Triebel, H. Grimmett and I. Posner,
Confidence Boosting: Improving the Introspectiveness of a Boosted Classifier for Efficient Learning,

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[C164] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
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*Demo Track of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at the Robotics: Science and Systems Conference (RSS)*, June 2013.

[C166] 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.

[C167] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,

[C168] F. Stangl, M. Souiai and D. Cremers,
Performance Evaluation of Narrow Band Methods for Variational Stereo,
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[C169] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,

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[C171] T. Naseer, J. Sturm and D. Cremers,
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[C172] M. Klodt, J. Sturm and D. Cremers,
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Dense Tracking and Mapping with a Quadrocopter,
*Unmanned Aerial Vehicle in Geomatics (UAV-g)*, Rostock, Germany, September 2013.
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[C174] 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*,
*German Conference on Pattern Recognition (GCPR)*, Saarbrücken, Germany, September 2013.

[C176] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,
*Efficient Shape Matching using Vector Extrapolation*,
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[C177] J. Engel, J. Sturm and D. Cremers,
*Semi-Dense Visual Odometry for a Monocular Camera*,
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*Elastic Net Constraints for Shape Matching*,
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*Total Variation Regularization for Functions with Values in a Manifold*,
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[C180] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
*Proportion Priors for Image Sequence Segmentation*,
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[C181] J. Stühmer, P. Schröder and D. Cremers,
*Tree Shape Priors with Connectivity Constraints using Convex Relaxation on General Graphs*,
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[C182] G. Kuschik 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.

[C183] 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.

[C184] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
*Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences*,
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[C185] 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 IE-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.
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[C187] D. Cremers, E. Rodola and T. Windheuser,
Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Shape Matching,

[C188] M. Schadler, J. Stueckler and S. Behnke,
Multi-resolution surfel mapping and real-time pose tracking using a continuously rotating 2D laser scanner,

[C189] J. Stueckler and S. Behnke,
Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,

[C190] M. McElhone, J. Stueckler and S. Behnke,
Joint detection and pose tracking of multi-resolution surfel models in RGB-D,

[C191] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
Distinctive 3D surface entropy features for place recognition,

[C192] 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,

[C193] J. Stueckler and S. Behnke,
Hierarchical Object Discovery and Dense Modelling From Motion Cues in RGB-D Video,

[C194] 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,

[C195] L. Gorelick, F. R. Schmidt and Y. Boykov,
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Portland, Oregon, Jun 2013.

[C196] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald,
Planar simplification and texturing of dense point cloud maps,

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[C210] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
A Benchmark for the Evaluation of RGB-D SLAM Systems,

[C211] J. Engel, J. Sturm and D. Cremers,
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing,

[C212] 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.

Comparison of Diffusion Kurtosis Tensor Estimation Methods in an Advanced Quality Assessment Framework,
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[C215] N. Ufer, M. Souiai and D. Cremers,
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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,

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*Proc. of the 12th IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids)*, 618-624, November 2012.

[C219] J. Stueckler, N. Birosev and S. Behnke,
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*Proc. of the IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*, 3005-3010, October 2012.
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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.

[C221] 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, September 2012.

[C222] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
SURE: Surface Entropy for Distinctive 3D Features,

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M. Schikora, 
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[C359] J. Stueckler, H. Schulz and S. Behnke,
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[C360] J. Stueckler and S. Behnke,
Orthogonal wall correction for visual motion estimation,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 1-6, May 2008.

[C361] S. Frintrop, M. Klodt and E. Rome,
A Real-time Visual Attention System Using Integral Images,
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[C362] S. May, M. Klodt, E. Rome and R. Breithaupt,
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[C363] K. Kolev, M. Klodt, T. Brox and D. Cremers,
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[C364] K. Kolev, M. Klodt, T. Brox, S. Esedoglu and D. Cremers,
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[C365] T. Brox, B. Rosenhahn, D. Cremers and H.-P. Seidel,
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[C370] A. Wedel and U. Franke,
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[C371] A. Wedel, T. Schoenemann, T. Brox and D. Cremers, 
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[C385] P. Pfaff, R. Triebel, C. Stachniss, P. Lamon, W. Burgard and R. Siegwart,
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[C386] R. Triebel, R. Schmidt, O. Martinez Mozos and W. Burgard,
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[C389] F. R. Schmidt, M. Clausen and D. Cremers,
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[C390] T. Schoenemann and D. Cremers,
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[C394] B. Rosenhahn, T. Brox, D. Cremers and H.-P. Seidel,
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T. Brox, A. Bruhn and J. Weickert,
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