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[J4] J. Schuchardt, V. Golkov and D. Cremers,

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[C28] Z. Lähner, D. Cremers and T. Tung,  
**DeepWrinkles: Accurate and Realistic Clothing Modeling**,  
September 2018, **Oral Presentation**.

[C29] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers,  
**Direct Sparse Odometry With Rolling Shutter**,  
September 2018, **Oral Presentation**.

[C30] V. Usenko, N. Demmel and D. Cremers,  
**The Double Sphere Camera Model**,  

[C31] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel,  
**Incremental Semi-Supervised Learning from Streams for Object Classification**,  

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[C33] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel,  
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[C34] 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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[C35] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,

[C36] I. Grixa, P. Schulz, W. Stürzl and R. Triebel,
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[C37] M. Sundermeyer, Z. Marton, M. Durner, M. Brucker and R. Triebel,
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[C38] M. Denninger and R. Triebel,
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[C39] M. Jaimez, C. Kerl, J. Gonzalez-Jimenez and D. Cremers,
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[C41] L. Ma, J. Stueckler, C. Kerl and D. Cremers,
Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D Cameras,
Vancouver, Canada, Sep 2017.

[C42] Vestner, M., Litman, R., Rodola, E., Bronstein, A., Cremers and D.,

[C43] M. Dzitsiuk, J. Sturm, R. Maier, L. Ma and D. Cremers,
De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using Plane Priors,

[C44] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers,
From Monocular SLAM to Autonomous Drone Exploration,
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[C45] Florian Walch, Caner Hazirbas, Laura Leal-Taixe, Torsten Sattler, Sebastian Hilsenbeck and Daniel Cremers,
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Microgeometry capture and RGB albedo estimation by photometric stereo without demosaicing,
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[C48] P. Haeusser, A. Mordvintsev and D. Cremers,
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2017.

[C49] V. Usenko, L. von Stumberg, A. Pangeric and D. Cremers,
Real-Time Trajectory Replanning for MAVs using Uniform B-splines and a 3D Circular Buffer,
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[C50] Tim Meinhardt, Michael Moeller, Caner Hazirbas and Daniel Cremers,
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[C53] K. Kurach, S. Gelly, M. Jastrzebski, P. Haeusser, O. Teytaud, D. Vincent and O. Bousquet,
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[C54] P. Haeusser, T. Frerix, A. Mordvintsev and D. Cremers,
Associative Domain Adaptation,
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[C56] V. Golyanik, K. Kim, R. Maier, M. Niessner, D. Stricker and J. Kautz,
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[C57] T. Möllenhoff and D. Cremers, 
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[C58] Christian Nissler, Zoltan-Csaba Marton, Hannes Kisner, Ulrike Thomas and Rudolph Triebel, 
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[C59] Tick Son Wang, Zoltan-Csaba Marton, Manuel Brucker and Rudolph Triebel, 
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*Conference on Robot Learning (CoRL)*, 2017.

[C60] Maximilian Durner, Simon Kriegel, Sebastian Riedel, Manuel Brucker, Zoltan-Csaba Marton, Ferenc Balint-Benczedi and Rudolph Triebel, 
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[C61] Queau, Y., Melou, J., Castan, F., Cremers, D., Durou and J.-D., 
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[C62] F. Bernard, F. R. Schmidt, J. Thunberg and D. Cremers, 
A Combinatorial Solution to Non-Rigid 3D Shape-to-Image Matching, 

[C63] A. Kasyanov, F. Engelmann, J. Stueckler and B. Leibe, 
Keyframe-Based Visual-Inertial Online SLAM with Relocalization, 

[C64] F. Engelmann, J. Stueckler and B. Leibe, 
SAMP: Shape and Motion Priors for 4D Vehicle Reconstruction, 

[C65] Peng, S., Haefner, B., Queau, Y., Cremers and D., 
Depth Super-Resolution Meets Uncalibrated Photometric Stereo, 
*International Conference on Computer Vision Workshops (ICCVW)*, 2017, Oral Presentation at ICCV Workshop on Color and Photometry in Computer Vision.

[C66] N. Mayer, E. Ilg, P. Haeser, P. Fischer, D. Cremers, A. Dosovitskiy and T. Brox, 
A Large Dataset to Train Convolutional Networks for Disparity, Optical Flow, and Scene Flow Estimation, 
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[C67] V. Golkov, T. Sprenger, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann and D. Cremers, 
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Prague, Czech Republic, April 2016.

[C68] V. Golkov, M. J. Skwark, A. Golkov, A. Dosovitskiy, T. Brox, J. Meiler and D. Cremers, 
Protein Contact Prediction from Amino Acid Co-Evolution Using Convolutional Networks for Graph-Valued Images, 
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[C70] A. Narr, R. Triebel and D. Cremers, 
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Objects, 
May 2016.

[C71] Z. Lähner, E. Rodola, M. M. Bronstein, D. Cremers, O. Burghard, L. Cosmo, A. Dieck- 
mann, R. Klein and Y. Sahillioglu, 
SHREC16: Matching of Deformable Shapes with Topological Noise, 
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[C72] L. Cosmo, E. Rodola, M. M. Bronstein, A. Torsello, D. Cremers and Y. Sahillioglu, 
SHREC16: Partial Matching of Deformable Shapes, 
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[C73] T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers, 
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[C75] J. Engel, V. Usenko and D. Cremers, 
A Photometrically Calibrated Benchmark For Monocular Visual Odometry, 

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[C78] T. Windheuser and D. Cremers, 
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[C80] D. Klostermann, A. Osep, J. Stueckler and B. Leibe, 
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[C81] D. Kochanov, A. Osep, J. Stueckler and B. Leibe, 
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namic Street Scenes, 
[C82] F. Engelmann, J. Stueckler and B. Leibe, 
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[C83] M. Moeller, J. Diebold, G. Gilboa and D. Cremers, 

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[C86] A. Kanezaki, E. Rodola and T. Harada, 

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[C88] M. Jaimez, M. Souiai, J. Gonzalez-Jimenez and D. Cremers, 
A Primal-Dual Framework for Real-Time Dense RGB-D Scene Flow, 
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X.-C. Tai, E. Bae, T. F. Chan and M. Lysaker(Eds.), , 2015.

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[C94] M.I. Menzel, T. Sprenger, E.T. Tan, V. Golkov, C.J. Hardy, L. Marinelli and J.I. Sperl, 
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[C97] A. Dosovitskiy, P. Fischer, E. Ilg, P. Haeusser, C. Hazirbas, V. Golkov, P. van der Smagt, 
D. Cremers and T. Brox, 
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December 2015.

V. Evers, M. Fiore, H. Hung, O. A. Islas Ramirez, M. Joosse, H. Kambhaita, T. Kucner, 
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[C99] D. Holz, A. Topalidou-Kyniazopoulou, J. Stueckler and S. Behnke, 
Real-Time Object Detection, Localization and Verification for Fast Robotic Depalletizing, 
2015.

[C100] J. Engel, J. Stueckler and D. Cremers, 
Large-Scale Direct SLAM with Stereo Cameras, 
2015.

[C101] D. Caruso, J. Engel and D. Cremers, 
Large-Scale Direct SLAM for Omnidirectional Cameras, 
2015.

[C102] Y. Tao, R. Triebel and D. Cremers, 
Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams, 
2015.

[C103] R. Maier, J. Stueckler and D. Cremers, 
Super-Resolution Keyframe Fusion for 3D Modeling with High-QualityTextures, 
International Conference on 3D Vision (3DV), 2015.

[C104] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers, 
Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images, 
[C105] E. Rodola, M. Moeller and D. Cremers, 
**Point-wise Map Recovery and Refinement from Functional Correspondence**, Aachen, Germany, 2015, Received the Best Paper Award.

[C106] C. Kerl, J. Stueckler and D. Cremers, 
**Dense Continuous-Time Tracking and Mapping with Rolling Shutter RGB-D Cameras**, Santiago, Chile, 2015.

[C107] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers, 
**Entropy Minimization for Convex Relaxation Approaches**, Santiago, Chile, 2015.

[C108] F. Stark, C. Hazirbas, R. Triebel and D. Cremers, 

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**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.


[C114] V. Golkov, M.I. Menzel, T. Sprenger, A. Haase, D. Cremers and J.I. Sperl, 


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**Event-based 3D SLAM with a depth-augmented dynamic vision sensor**, 2014.
[C117] F. Steinbruecker, J. Sturm and D. Cremers,  
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[C118] E. Rodola, S. Rota Bulo, T. Windheuser, M. Vestner and D. Cremers,  
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[C119] Y. Kee, M. Souiai, D. Cremers and J. Kim,  
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[C120] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers,  
**Collision Avoidance for Quadrotors with a Monocular Camera**,  

[C121] J. Engel, T. Schöps and D. Cremers,  
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September 2014, **Oral Presentation**.

[C122] T. Schöps, J. Engel and D. Cremers,  
**Semi-Dense Visual Odometry for AR on a Smartphone**,  
September 2014, **Best Short Paper Award**.

[C123] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers,  
**Optimal Intrinsic Descriptors for Non-Rigid Shape Analysis**,  
2014.

[C124] M. Strobel, J. Diebold and D. Cremers,  
**Flow and Color Inpainting for Video Completion**,  
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[C125] R. Maier, J. Sturm and D. Cremers,  
**Submap-based Bundle Adjustment for 3D Reconstruction from RGB-D Data**,  
*German Conference on Pattern Recognition (GCPR)*, Münster, Germany, September 2014.

[C126] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers,  
**Spatial and Temporal Interpolation of Multi-View Image Sequences**,  
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[C127] M. R. Oswald and D. Cremers,  
**Surface Normal Integration for Convex Space-time Multi-view Reconstruction**,  
2014.

[C128] C. Nieuwenhuis, S. Hawe, M. Kleinstueber and D. Cremers,  
**Co-Sparse Textural Similarity for Interactive Segmentation**,  
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[C129] M. R. Oswald, J. Stühmer and D. Cremers,  
**Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction**,  

[C130] E. Strekalovskiy and D. Cremers,  
**Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional**,  
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[C131] A. Kanezaki, E. Rodola and T. Harada, RGB-D [RGB-D gazou kara no buttai kenshutsu ni okeru taiou tenshuugou ruijido no gakushuu],

[C132] A. Kanezaki, E. Rodola, D. Cremers and T. Harada, [Taiou tenshuugou ruijido gakushuu wo mochiita goutai-higoutai buttai kenshutsu],

[C133] 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 (NOR-DIA), 2014.


[C135] R. Triebel, J. Stühmer, M. Souiai and D. Cremers, Active Online Learning for Interactive Segmentation Using Sparse Gaussian Processes,
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[C138] D. Bender, M. Schikora, J. Sturm and D. Cremers, INS-Camera Calibration without Ground Control Points,
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[C139] C. Kerl, M. Souiai, J. Sturm and D. Cremers, Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras,
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[C140] J. Stueckler and S. Behnke, Adaptive Tool-Use Strategies for Anthropomorphic Service Robots,

[C141] D. Droeschel, J. Stueckler and S. Behnke, Local Multi-Resolution Surfel Grids for MAV Motion Estimation and 3D Mapping,
[C142] J. Stueckler, A. Gutt and S. Behnke,  
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[C144] D. Droeschel, J. Stueckler and S. Behnke,  
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Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 5221-5226, May 2014.

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[C147] Bergbauer, Julia, Tari and Sibel,  
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[C148] Bergbauer, Julia, Tari and Sibel,  
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[C151] J. Bergbauer, C. Nieuwenhuis, M. Souiai and D. Cremers,  
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[C152] V. Golkov, T. Sprenger, A. Menini, M.I. Menzel, D. Cremers and J.I. Sperl,  
Effects of Low-Rank Constraints, Line-Process Denoising, and q-Space Compressed Sensing on Diffusion MR Image Reconstruction and Kurtosis Tensor Estimation,  
2013, Oral Presentation.
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[C163] D. Weikersdorfer, A. Schick and D. Cremers,

[C164] R. Triebel, H. Grimmett and I. Posner,
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Introspective Active Learning for Scalable Semantic Mapping,

[C166] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,

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Demo Track of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at the Robotics: Science and Systems Conference (RSS), June 2013.

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[C169] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,

[C170] F. Stangl, M. Souiai 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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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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Sydney, Australia, December 2013.

[C180] E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,
Elastic Net Constraints for Shape Matching,
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[C184] G. Kuschk and D. Cremers,
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*ICCV Workshop on Big Data in 3D Computer Vision*, Sydney, Australia, December 2013.

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*Proc. of the Assistance and Service Robotics Workshop (ASROB) at the IEEE Int. Conf. on Intelligent Robots and Systems (IROS)*, Nov. 2013.
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Driven Learning for Driving: How Introspection Improves Semantic Mapping,
The International Symposium on Robotics Research (ISRR), 2013.

[C189] D. Cremers, E. Rodola and T. Windheuser,
Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Shape Matching,

[C190] M. Schadler, J. Stueckler and S. Behnke,
Multi-resolution surfel mapping and real-time pose tracking using a continuously rotating 2D laser scanner,

[C191] J. Stueckler and S. Behnke,
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