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Ventriloquist-Net: Leveraging Speech Cues for Emotive Talking Head Generation,
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L Koestler, D Grittner, M Moeller, D Cremers and Z Lähner,
Intrinsic Neural Fields: Learning Functions on Manifolds,
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AF Villacampa, LO Maza, J Civera and R Triebel,
A Model for Multi-View Residual Covariances Based on Perspective Deformation,
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E Aljalbout, M Ulmer and R Triebel,
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M Stoiber, M Sundermeyer and R Triebel,
Iterative Corresponding Geometry: Fusing Region and Depth for Highly Efficient 3D Tracking of Textureless Objects,
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[C18] W Boerdijk, M Durner, M Sundermeyer and R Triebel, 
Towards Robust Perception of Unknown Objects in the Wild, 

[C19] M Lyssenko, CD Gladisch, C Heinzemann, M Woehrle and R Triebel, 
Towards Safety-Aware Pedestrian Detection in Autonomous Systems, 

[C20] M Knauer, M Denninger and R Triebel, 
RECALL: Rehearsal-free Continual Learning for Object Classification, 

[C21] D Winkelbauer, B Bäuml, N Thuerey and R Triebel, 
A Two-stage Learning Architecture that Generates High-Quality Grasps for a Multi-Fingered Hand, 

[C22] J Feng, J Lee, M Durner and R Triebel, 
Bayesian Active Learning for Sim-to-Real Robotic Perception, 

[C23] L Meyer, KH. Strobl and R Triebel, 
The Probabilistic Robot Kinematics Model and its Application to Sensor Fusion, 

[C24] R Giubilato, W Stürzl, A Wedler and R Triebel, 
Challenges of SLAM in extremely unstructured environments: the DLR Planetary Stereo, Solid-State LiDAR, Inertial Dataset, 

[C25] M Gladkova, N Korobov, N Demmel, A Osep, L Leal-Taixe and D Cremers, 
DirectTracker: 3D Multi-Object Tracking Using Direct Image Alignment and Photometric Bundle Adjustment, 

[C26] HHH Hsu, Y Shen, C Tomani and D Cremers, 
What Makes Graph Neural Networks Miscalibrated?, 

[C27] Y Shen and D Cremers, 
Deep Combinatorial Aggregation, 

[C28] HHH Hsu, Y Shen and D Cremers, 
A Graph Is More Than Its Nodes: Towards Structured Uncertainty-Aware Learning on Graphs, 

[C29] B. Haefner, S. Green, A. Oursland, D. Andersen, M. Goesele, D. Cremers, R. Newcombe and T. Whelan, 
Recovering Real-world Reflectance Properties and Shading from HDR Imagery, 


[C41] Y. Xia, Y. Xu, S. Li, R. Wang, J. Du, D. Cremers and U. Stilla,
SOE-Net: A Self-Attention and Orientation Encoding Network for Point Cloud based Place Recognition,
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[C42] P. Wenzel, T. Schön, L. Leal-Taixe and D. Cremers,
Vision-Based Mobile Robotics Obstacle Avoidance With Deep Reinforcement Learning,

[C43] M Sewtz, X Luo, J Landgraf, T Bodenmüller and R Triebel,
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[C44] D Winkelbauer, M Denninger and R Triebel,
Learning to Localize in New Environments from Synthetic Training Data,

[C45] H Lehner, MJ. Schuster, T Bodenmüller and R Triebel,
Exploration of Large Outdoor Environments Using Multi-Criteria Decision Making,

[C46] W Boerdijk, M Sundermeyer, M Durner and R Triebel,
“What’s This? Learning to Segment Unknown Objects from Manipulation Sequences,

[C47] M Sundermeyer, A Mousavian, R Triebel and D Fox,
Contact-GraspNet: Efficient 6-DoF Grasp Generation in Cluttered Scenes,

[C48] I Ballester, A Fontan, J Civera, KH. Strobl and R Triebel,
DOT: Dynamic Object Tracking for Visual SLAM,

[C49] 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.

[C50] C Tomani and F Buettner,
Towards Trustworthy Predictions from Deep Neural Networks with Fast Adversarial Calibration,
*InThirty-FifthAAAIConferenceonArtificialIntelligence(AAAI-2021)*, 2021.
[C51] C Tomani, S Gruber, ME Erdem, D Cremers and F Buettner,  
**Post-hoc Uncertainty Calibration for Domain Drift Scenarios**,  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021, Oral Presentation.

[C52] M Lyssenko, C Gladisch, C Heinzemann, M Woehrle and R Triebel,  
**From Evaluation to Verification: Towards Task-Oriented Relevance Metrics for Pedestrian Detection in Safety-Critical Domains**,  

[C53] N Demmel, D Schubert, C Sommer, D Cremers and V Usenko,  
**Square Root Marginalization for Sliding-Window Bundle Adjustment**,  

[C54] MW Wudenka, MG Müller, N Demmel, A Wedler, R Triebel, D Cremers and W Stuerzl,  
**Towards Robust Monocular Visual Odometry for Flying Robots on Planetary Missions**,  

[C55] S Klenk, J Chui, N Demmel and D Cremers,  
**TUM-VIE: The TUM Stereo Visual-Inertial Event Dataset**,  

[C56] L Koestler, N Yang, N Zeller and D Cremers,  
**TANDEM: Tracking and Dense Mapping in Real-time using Deep Multi-view Stereo**,  
*Conference on Robot Learning (CoRL)*, 2021, 3DV’21 Best Demo Award.

[C57] S Weber, N Demmel and D Cremers,  
**Multidirectional Conjugate Gradients for Scalable Bundle Adjustment**,  
*German Conference on Pattern Recognition (GCPR)*, 2021, Oral Presentation.

[C58] J Lee, J Feng, M Humt, MG Müller and R Triebel,  
**Trust Your Robots! Predictive Uncertainty Estimation of Neural Networks with Sparse Gaussian Processes**,  
*5th Conference on Robot Learning (CoRL)*, November 2021.

[C59] D Schnaus, J Lee and R Triebel,  
**Kronecker-Factored Optimal Curvature**,  

[C60] HC Liao, R Giubilato, W Stürzl and R Triebel,  
**Learning-Based Matching of 3D Submaps from Dense Stereo for Planetary-Like Environments**,  

[C61] R Giubilato, M Vayugundla, W Stürzl, M Schuster, A Wedler and R Triebel,  
**Multi-Modal Loop Closing in Unstructured Planetary Environments with Visually Enriched Submaps**,  
[C62] M Durner, W Boerdijk, M Sundermeyer, W Friedl, ZC Marton and R Triebel, 
*Unknown Object Segmentation from Stereo Images*, 

[C63] M Lyssenko, C Gladisch, C Heinzemann, M Woehrle and R Triebel, 
*Instance Segmentation in CARLA: Methodology and Analysis for Pedestrian- 
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[C64] MG Müller, M Durner, A Gawel, W Stürzl, R Triebel and R Siegwart, 
*A Photorealistic Terrain Simulation Pipeline for Unstructured Outdoor Envi- 
rions*, 
*2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 
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[C65] Y Wang, Y Shen and D Cremers, 
*Explicit pairwise factorized graph neural network for semi-supervised node 
classification*, 
*UAI*, 2021.

and D. Cremers, 
*3D Deep Learning for Biological Function Prediction from Physical Fields*, 

[C67] L. Sang, B. Haefner and D. Cremers, 
*Inferring Super-Resolution Depth from a Moving Light-Source Enhanced RGB-D Sensor: A Variational Approach*, 
*IEEE Winter Conference on Applications of Computer Vision (WACV)*, Colorado, USA, 
March 2020, *Spotlight Presentation*.

[C68] T Frerix, M Niesner and D Cremers, 
*Homogeneous Linear Inequality Constraints for Neural Network Activations*, 

[C69] R. Wang, N. Yang, J. Stueckler and D. Cremers, 
*DirectShape: Photometric Alignment of Shape Priors for Visual Vehicle Pose 
and Shape Estimation*, 

[C70] M. Eisenberger, Z. Lähner and D. Cremers, 
*Smooth Shells: Multi-Scale Shape Registration with Functional Maps*, 
*IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 
2020, *Oral Presentation*.

[C71] M. Eisenberger and D. Cremers, 
*Hamiltonian Dynamics for Real-World Shape Interpolation*, 

[C72] M. Eisenberger, A. Toker, L. Leal-Taixe and D. Cremers, 
*Deep Shells: Unsupervised Shape Correspondence with Optimal Transport*, 
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[C73] S. Weiss, R. Maier, D. Cremers, R. Westermann and N. Thuerey, 
Correspondence-Free Material Reconstruction using Sparse Surface Constraints, 
*IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

[C74] C. Sommer, V. Usenko, D. Schubert, N. Demmel and D. Cremers, 
Efficient Derivative Computation for Cumulative B-Splines on Lie Groups, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020, Oral Presentation.

[C75] N. Yang, L. von Stumberg, R. Wang and D. Cremers, 
D3VO: Deep Depth, Deep Pose and Deep Uncertainty for Monocular Visual Odometry, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020, Oral Presentation.

[C76] A. Fontan-Villacampa, J. Civera and R. Triebel, 
Information-Driven Direct RGB-D Odometry, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020, Oral Presentation.

Multi-path Learning for Object Pose Estimation Across Domains, 

[C78] J. Wenger, H. Kjellström and R. Triebel, 
Non-Parametric Calibration for Classification, 
*International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2020.

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[C80] Z. Ye, T. Möllenhoff, T. Wu and D. Cremers, 
Optimization of Graph Total Variation via Active-Set-based Combinatorial Reconditioning, 
*International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2020.

[C81] J Lee, M Humt, J Feng and R Triebel, 
Estimating Model Uncertainty of Neural Networks in Sparse Information Form, 

[C82] J Liu, I Chiotellis, R Triebel and D Cremers, 
Effective Version Space Reduction for Convolutional Neural Networks, 
*European Conference on Machine Learning and Data Mining (ECML-PKDD)*, 2020.

[C83] M Denninger and R Triebel, 
3D Scene Reconstruction from a Single Viewport, 
[C84] J. Du, R. Wang and D. Cremers, 
**DH3D: Deep Hierarchical 3D Descriptors for Robust Large-Scale 6DoF Relocalization,**
*European Conference on Computer Vision (ECCV),* 2020, **Spotlight Presentation.**

[C85] M Sewtz, T Bodenmüller and R Triebel, 
**Robust MUSIC-Based Sound Source Localization in Reverberant and Echoic Environments,** 

[C86] CL Gentil, M Vayugundla, R Giubilato, W Stürzl, TA. Vidal-Calleja and R Triebel, 
**Gaussian Process Gradient Maps for Loop-Closure Detection in Unstructured Planetary Environments,** 

[C87] C. Sommer, Y. Sun, E. Bylow and D. Cremers, 
**PrimiTect: Fast Continuous Hough Voting for Primitive Detection,** 

[C88] L. Koestler, N. Yang, R. Wang and D. Cremers, 
**Learning Monocular 3D Vehicle Detection without 3D Bounding Box Labels,** 

[C89] P. Wenzel, R. Wang, N. Yang, Q. Cheng, Q. Khan, L. von Stumberg, N. Zeller and D. Cremers, 
**4Seasons: A Cross-Season Dataset for Multi-Weather SLAM in Autonomous Driving,** 

[C90] B Holzschuh, Z Lähner and D Cremers, 
**Simulated Annealing for 3D Shape Correspondence,** 
*International Conference on 3D Vision (3DV),* 2020, **Oral Presentation.**

[C91] M Aygün, Z Lähner and D Cremers, 
**Unsupervised Dense Shape Correspondence using Heat Kernels,** 

[C92] W Boerdijk, M Sundermeyer, M Durner and R Triebel, 
**Self-Supervised Object-in-Gripper Segmentation from Robotic Motions,** 
*Conference on Robot Learning (CoRL),* 2020.

[C93] F Schiel, A Hagengruber, J Vogel and R Triebel, 
**Incremental learning of EMG-based control commands using Gaussian Processes,** 
*Conference on Robot Learning (CoRL),* 2020.

[C94] M Stoiber, M Pfanne, K Strobl, R Triebel and A Albu-Schaeffer, 
**A Sparse Gaussian Approach to Region-Based 6DoF Object Tracking,** 
*Asian Conference on Computer Vision, 2020, Best Paper Award.**

[C95] L Meyer, K Strobl and R Triebel, 
**Robust Vision-Based Pose Correction for a Robotic Manipulator using Active Markers,** 
[C96] N Demmel, M Gao, E Laude, T Wu and D Cremers,  
*Distributed Photometric Bundle Adjustment*,  

[C97] L. von Stumberg, P. Wenzel, N. Yang and D. Cremers,  
*LM-Reloc: Levenberg-Marquardt Based Direct Visual Relocalization*,  

*Shape Correspondence with Isometric and Non-Isometric Deformations*,  
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[C99] B. Haefner, Y. Queau and D. Cremers,  
*Photometric Segmentation: Simultaneous Photometric Stereo and Masking*,  
*International Conference on 3D Vision (3DV)*, Quebec City, Canada, September 2019, Spotlight Presentation.

[C100] B. Haefner, Z. Ye, M. Gao, T. Wu, Y. Queau and D. Cremers,  
*Variational Uncalibrated Photometric Stereo under General Lighting*,  
*IEEE/CVF International Conference on Computer Vision (ICCV)*, Seoul, South Korea, October 2019.

[C101] T. Yenamandra, F. Bernard, J. Wang, F. Mueller and C. Theobalt,  
*Convex Optimisation for Inverse Kinematics*,  

[C102] A. Vasilev, V. Golkov, M. Meissner, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,  
*q-Space Novelty Detection with Variational Autoencoders*,  
*MICCAI 2019 International Workshop on Computational Diffusion MRI*, 2019, Oral Presentation.

[C103] P. Swazinna, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,  
*Negative-Unlabeled Learning for Diffusion MRI*,  

[C104] D. Schubert, N. Demmel, L. von Stumberg, V. Usenko and D. Cremers,  
*Rolling-Shutter Modelling for Visual-Inertial Odometry*,  

[C105] M. Eisenberger, Z. Lähner and D. Cremers,  
*Divergence-Free Shape Correspondence by Deformation*,  

[C106] E. Bylow, R. Maier, F. Kahl and C. Olsson,  
*Combining Depth Fusion and Photometric Stereo for Fine-Detailed 3D Models*,  
*Scandinavian Conference on Image Analysis (SCIA)*, Norrköping, Sweden, June 2019, Oral Presentation, received the SCIA 2019 Honourable Mention award.
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[C107] E. Laude, T. Wu and D. Cremers, 
Optimization of Inf-Convolution Regularized Nonconvex Composite Problems, 
*International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2019.

[C108] T. Möllenhoff and D. Cremers, 
Lifting Vectorial Variational Problems: A Natural Formulation based on Geometric Measure Theory and Discrete Exterior Calculus, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019, Oral Presentation.

[C109] T. Möllenhoff and D. Cremers, 
Flat Metric Minimization with Applications in Generative Modeling, 

[C110] T. Frerix and J. Bruna, 
Approximating Orthogonal Matrices with Effective Givens Factorization, 

[C111] Q. Khan, P. Wenzel, D. Cremers and L. Leal-Taixe, 
Towards Generalizing Sensorimotor Control Across Weather Conditions, 

[C112] E.Y. Puang, P. Lehner, Z.C. Marton, M. Durner, R. Triebel and A. Albu-Schäffer, 
Visual Repetition Sampling for Robot Manipulation Planning, 
*Conference on Robot Learning (CoRL)*, 2019, Full Oral Presentation.

[C113] M. Möller, T. Möllenhoff and D. Cremers, 
Controlling Neural Networks via Energy Dissipation, 
*International Conference on Computer Vision (ICCV)*, Seoul, South Korea, 10 2019.

[C114] E. Jung, N. Yang and D. Cremers, 
Multi-Frame GAN: Image Enhancement for Stereo Visual Odometry in Low Light, 
*Conference on Robot Learning (CoRL)*, 2019, Full Oral Presentation.

[C115] S. Weiss, R. Maier, R. Westermann, D. Cremers and N. Thürey, 
Sparse Surface Constraints for Combining Physics-based Elasticity Simulation and Correspondence-Free Object Reconstruction, 

[C116] P. Brechet, T. Wu, T. Möllenhoff and D. Cremers, 
Informative GANs via Structured Regularization of Optimal Transport, 

[C117] F. Steidle, W. Stürzl and R. Triebel, 
Visual-inertial sensor fusion with a bio-inspired polarization compass for navigation of MAVs, 

[C118] J. Feng, M. Durner, Z.-C. Marton, F. Balint-Benczedi and R. Triebel, 
Introspective Robot Perception using Smoothed Predictions from Bayesian Neural Networks, 
[C119] R. Henschel, L. Leal-Taixe, D. Cremers and B. Rosenhahn, 
**Fusion of Head and Full-Body Detectors for Multi-Object Tracking**, 

[C120] C. Sommer and D. Cremers, 
**Joint Representation of Primitive and Non-primitive Objects for 3D Vision**, 

[C121] 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.

[C122] B. Haefner, Y. Queau, T. Möllenhoff and D. Cremers, 
**Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading**, 
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018, 
Spotlight Presentation.

**Discrete-Continuous ADMM for Transductive Inference in Higher-Order MRFs**, 
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.

[C124] C Domokos, FR. Schmidt and D Cremers, 
**MRF Optimization with Separable Convex Prior on Partially Ordered Labels**, 

[C125] E. Laude, T. Wu and D. Cremers, 
**A Nonconvex Proximal Splitting Algorithm under Moreau-Yosida Regularization**, 
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[C126] 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.

[C127] R Scona, M Jaimez, YR. Petillot, M Fallon and D Cremers, 
**StaticFusion: Background Reconstruction for Dense RGB-D SLAM in Dynamic Environments**, 

[C128] 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**, 
q-Space Deep Learning for Alzheimer’s Disease Diagnosis: Global Prediction and Weakly-Supervised Localization, 

[C130] B. T. Do, V. Golkov, G. E. Gürel and D. Cremers, 
Precursor microRNA Identification Using Deep Convolutional Neural Networks, 

[C131] P. Haeusser, J. Plapp, V. Golkov, E. Aljalbout and D. Cremers, 
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[C132] T. Frerix, T. Möllenhoff, M. Moeller and D. Cremers, 
Proximal Backpropagation, 

Semantic Labeling of Indoor Environments from 3D RGB Maps, 

[C134] 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.

[C135] D. Schubert, T. Goll, N. Demmel, V. Usenko, J. Stueckler and D. Cremers, 
The TUM VI Benchmark for Evaluating Visual-Inertial Odometry, 

[C136] X. Gao, R. Wang, N. Demmel and D. Cremers, 
LDSO: Direct Sparse Odometry with Loop Closure, 

[C137] Z. Lähner, D. Cremers and T. Tung, 
DeepWrinkles: Accurate and Realistic Clothing Modeling, 
European Conference on Computer Vision (ECCV), September 2018, Oral Presentation.

[C138] N. Yang, R. Wang, J. Stueckler and D. Cremers, 
Deep Virtual Stereo Odometry: Leveraging Deep Depth Prediction for Monocular Direct Sparse Odometry, 
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[C139] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers, 
Direct Sparse Odometry With Rolling Shutter, 
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[C140] V. Usenko, N. Demmel and D. Cremers, 
The Double Sphere Camera Model, 
[C141] M. Sundermeyer, Z. Marton, M. Durner, M. Brucker and R. Triebel, 
*Implicit 3D Orientation Learning for 6D Object Detection from RGB Images,* 

[C142] M. Denninger and R. Triebel, 
*Persistent Anytime Learning of Objects from Unseen Classes,* 

[C143] I. Grixa, P. Schulz, W. Stürzl and R. Triebel, 
*Appearance-Based Along-Route Localization for Planetary Missions,* 

[C144] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel, 
*Incremental Semi-Supervised Learning from Streams for Object Classification,* 

[C145] 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.

*6DoF Pose Estimation for Industrial Manipulation based on Synthetic Data,* 

[C147] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel, 
*Simultaneous Calibration and Mapping,* 

[C148] 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.

[C149] M. Benning, M. Möller, R. Z. Nossek, M. Burger, D. Cremers and G. Gilboa, 
*Nonlinear Spectral Image Fusion,* 

[C150] D. Bender, W. Koch and D. Cremers, 
*Map-based drone homing using shortcuts,* 
[C151] G. Kuschk, A. Bozic and D. Cremers, 
Real-time variational stereo reconstruction with applications to large-scale 
dense SLAM, 
*IEEE Intelligent Vehicles Symposium, IV 2017, Los Angeles, CA, USA, June 11-14, 2017*, 

[C152] 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.

[C153] M. Jaimez, T. J. Cashman, A. Fitzgibbon, J. Gonzalez-Jimenez and D. Cremers, 
An Efficient Background Term for 3D Reconstruction and Tracking with 
Smooth Subdivision Surface Models, 

[C154] L. Ma, J. Stueckler, C. Kerl and D. Cremers, 
Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D 
Cameras, 
*International Conference on Intelligent Robots and Systems (IROS)*, Vancouver, Canada, 
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[C155] 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, 

[C156] M. Dzitsiuk, J. Sturm, R. Maier, L. Ma and D. Cremers, 
De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using 
Plane Priors, 

[C157] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
From Monocular SLAM to Autonomous Drone Exploration, 

[C158] F. Walch, C. Hazirbas, L. Leal-Taixe, T. Sattler, S. Hilsenbeck and D. Cremers, 
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[C159] J.C. Peeken, C. Knie, V. Golkov, K. Kessel, F. Pasa, Q. Khan, M. Seroglazov, 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 Ra-
diomics in sarcoma patients, 

[C160] Y. Queau, M. Pizenberg, J.-D. Durou and D. Cremers, 
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without demosaicing, 
[C161] P. Haeusser, A. Mordvintsev and D. Cremers,
Learning by Association - A versatile semi-supervised training method for
neural networks,

[C162] M. Slavcheva, M. Baust, D. Cremers and S. Ilic,
KillingFusion: Non-rigid 3D Reconstruction without Correspondences,

[C163] 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,
*International Conference on Intelligent Robots and Systems (IROS)*, Vancouver, Canada,
Sep 2017, Best Paper Award - Finalist.

[C164] Y. Queau, T. Wu, F. Lauze, J.-D. Durou and D. Cremers,
A Non-Convex Variational Approach to Photometric Stereo under Inaccurate
Lighting,
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Honolulu, USA,
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[C165] T. Meinhardt, M. Moeller, C. Hazirbas and D. Cremers,
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Imaging Problems,

[C166] S. Caelles, K.-K. Maninis, J. Pont-Tuset, L. Leal-Taixe, D. Cremers and L. V Gool,
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*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Honolulu, USA,
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[C255] R. Maier, J. Sturm and D. Cremers,
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[Taiou tenshuugou ruijido gakushuu wo mochiita goutai-higoutai buttai kenshutsu],  

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[C271] D. Droeschel, J. Stueckler and S. Behnke,
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[C272] J. Stueckler, A. Gutt and S. Behnke,
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[C274] D. Droeschel, J. Stueckler and S. Behnke,
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[C313] J. Stühmer, P. Schröder and D. Cremers,
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The International Symposium on Robotics Research (ISRR), 2013.

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Mobile bin picking with an anthropomorphic service robot,

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[C505] C. Schmaltz, B. Rosenhahn, T. Brox, D. Cremers, J. Weickert, L. Wietzke and G. Sommer, 
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[PhD1] V. Golkov,
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[PhD2] R. Maier,
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[M2] C Hazirbas, 
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[M3] T Schöps, 
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[M10] M. Souiai,
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