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[C26] E. Laude, T. Wu and D. Cremers, 
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[C28] V. Golkov, A. Vasilev, F. Pasa, I. Lipp, W. Boubaker, E. Sgarlata, F. Pfeiffer, V. Tomassini, 
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[C31] P. Haeusser, J. Plapp, V. Golkov, E. Aljalbout and D. Cremers,
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[C32] Nikolaus Mayer, Eddy Ilg, Philipp Fischer, Caner Hazirbas, Daniel Cremers, Alexey Dosovitskiy and Thomas Brox,
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cal Flow Estimation?,
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[C33] T. Frerix, T. Möllenhoff, M. Moeller and D. Cremers,
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[C34] E. Laude, J.-H. Lange, J. Schüpfer, C. Domokos, L. Leal-Taixe, F. R. Schmidt, B. Andres and D. Cremers,
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[C37] X. Gao, R. Wang, N. Demmel and D. Cremers,
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[C39] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers,
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[C40] V. Usenko, N. Demmel and D. Cremers,
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[C41] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel,
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6DoF Pose Estimation for Industrial Manipulation based on Synthetic Data,

[C43] C. Nissler, M. Durner, Z.-C. Marton and R. Triebel,
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[C45] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,

[C46] I. Grixa, P. Schulz, W. Stürzl and R. Triebel,
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[C47] M. Sundermeyer, Z. Marton, M. Durner, M. Brucker and R. Triebel,
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[C49] M. Jaimez, C. Kerl, J. Gonzalez-Jimenez and D. Cremers,
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[C52] Vestner, M., Litman, R., Rodola, E., Bronstein, A., Cremers and D.,
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[C54] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers, 
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[C55] Florian Walch, Caner Hazirbas, Laura Leal-Taixe, Torsten Sattler, Sebastian Hilsenbeck and Daniel Cremers, 
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[C56] J.C. Peeken, C. Knie, V. Golkov, K. Kessel, F. Pasa, Q. Khan, M. Seroglazov, J. Kuckacka, 
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Microgeometry capture and RGB albedo estimation by photometric stereo without demosaicing, 
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[C90] D. Klostermann, A. Osep, J. Stueckler and B. Leibe, 
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20 - Robotics Symposia (RS), Karuizawa, Japan, March 2015.

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D. Cremers and T. Brox, 
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V. Evers, M. Fiore, H. Hung, O. A. Islas Ramirez, M. Joosse, H. Kambhaita, T. Kucner, 
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[C110] J. Engel, J. Stueckler and D. Cremers, 
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[C120] J. Stühmer, S. Nowozin, A. Fitzgibbon, R. Szeliski, T. Perry, S. Acharya, D. Cremers and J. Shotton,
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Figure-Ground Segmentation,
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[C131] J. Engel, T. Schöps and D. Cremers,
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[C132] T. Schöps, J. Engel and D. Cremers,
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[C165] 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,  
2013.

Phase Sensitive Reconstruction in Diffusion Spectrum Imaging Enabling Velocity Encoding and Unbiased Noise Distribution,  
2013.
All: 1

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Noise Reduction in Accelerated Diffusion Spectrum Imaging through Integration of SENSE Reconstruction into Joint Reconstruction in Combination with q-Space Compressed Sensing,
2013.

[C169] C. Kerl, J. Sturm and D. Cremers,
Robust Odometry Estimation for RGB-D Cameras,
May 2013, Best Vision Paper Award - Finalist.

[C170] E. Toeppe, C. Nieuwenhuis and D. Cremers,
Volume Constraints for Single View Reconstruction,
Portland, USA, 2013.

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

[C172] H. Grimmett, R. Paul, R. Triebel and I. Posner,
Knowing When We Don’t Know: Introspective Classification for Mission-Critical Decision Making,

[C173] D. Weikersdorfer, A. Schick and D. Cremers,
Depth-adaptive Supervoxels for RGB-D Video Segmentation,
2013.

[C174] 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,

[C176] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,

[C177] 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.
[C178] 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.

[C179] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,  
A Co-occurrence Prior for Continuous Multi-Label Optimization,  
2013.

[C180] F. Stangl, M. Souiai and D. Cremers,  
Performance Evaluation of Narrow Band Methods for Variational Stereo,  
35th German Conference on Pattern Recognition (GCPR), 2013.

[C181] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,  
Efficient Convex Optimization for Minimal Partition Problems with Volume  
Constraints,  
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[C182] C. Kerl, J. Sturm and D. Cremers,  
Dense Visual SLAM for RGB-D Cameras,  

[C183] T. Naseer, J. Sturm and D. Cremers,  
FollowMe: Person Following and Gesture Recognition with a Quadrocopter,  

[C184] 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.

[C185] 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.

[C186] 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.

[C187] 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.

[C188] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,  
Efficient Shape Matching using Vector Extrapolation,  
2013.

[C189] J. Engel, J. Sturm and D. Cremers,  
Semi-Dense Visual Odometry for a Monocular Camera,  
Sydney, Australia, December 2013.
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[C190] E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,
Elastic Net Constraints for Shape Matching,
Sydney, Australia, December 2013.

[C191] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
Total Variation Regularization for Functions with Values in a Manifold,
Sydney, Australia, December 2013.

[C192] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Proportion Priors for Image Sequence Segmentation,
Sydney, Australia, December 2013.

[C193] J. Stühmer, P. Schröder and D. Cremers,
Tree Shape Priors with Connectivity Constraints using Convex Relaxation on
General Graphs,
Sydney, Australia, December 2013, Oral Presentation.

[C194] G. Kuschk and D. Cremers,
Fast and Accurate Large-scale Stereo Reconstruction using Variational Me-
thods,
ICCV Workshop on Big Data in 3D Computer Vision, Sydney, Australia, December 2013.

[C195] 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.

[C196] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
Sydney, Australia, 2013.

[C197] T. Naseer, J. Sturm and D. Cremers,
Interactive Person Following and Gesture Recognition with a Flying Robot,
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The International Symposium on Robotics Research (ISRR), 2013.

[C199] D. Cremers, E. Rodola and T. Windheuser,
Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Sha-
pe Matching,
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[C200] M. Schadler, J. Stueckler and S. Behnke,
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ously rotating 2D laser scanner,
Proc. of the IEEE International Symposium on Safety, Security, and Rescue Robotics
(SSRR), 1-6, October 2013.

[C201] J. Stueckler and S. Behnke,
Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,
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[C202] M. McElhone, J. Stueckler and S. Behnke,
Joint detection and pose tracking of multi-resolution surfel models in RGB-D,

[C203] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
Distinctive 3D surface entropy features for place recognition,

[C204] 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,

[C205] J. Stueckler and S. Behnke,
Hierarchical Object Discovery and Dense Modelling From Motion Cues in RGB-D Video,

[C206] 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,

[C207] L. Gorelick, F. R. Schmidt and Y. Boykov,
Fast Trust Region for Segmentation,
Portland, Oregon, Jun 2013.

[C208] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald,
Planar simplification and texturing of dense point cloud maps,

[C209] E. Rodola, A.M. Bronstein, A. Albarelli, F. Bergamasco and A. Torsello,
A game-theoretic approach to deformable shape matching,

[C210] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,
An Evaluation of the RGB-D SLAM System,

[C211] T. Ruehr, J. Sturm, D. Pangercic, M. Beetz and D. Cremers,
A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,

[C212] Dominik Joho AND Gian Diego Tipaldi AND Nikolas Engelhard AND Cyrill Stachniss AND Wolfram Burgard,
Nonparametric Bayesian Models for Unsupervised Scene Analysis and Reconstruction,
[C213] M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit, 
Box-Particle Intensity Filter, 

[C214] M. Schikora, A. Gning, L. Mihaylova, D. Cremers and W. Koch, 
Box-Particle PHD Filter for Multi-Target Tracking, 
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[C215] L. Zhang, J. Sturm, D. Cremers and D. Lee, 
Real-Time Human Motion Tracking using Multiple Depth Cameras, 

[C216] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers, 
Nonmetric Priors for Continuous Multilabel Optimization, 
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[C217] T. Windheuser, H. Ishikawa and D. Cremers, 
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Firenze, Italy, October 2012.

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Meeting on Image Recognition and Understanding, Fukuoka, Japan, August 2012.

[C219] M. R. Oswald, E. Toeppe and D. Cremers, 
Fast and Globally Optimal Single View Reconstruction of Curved Objects, 
Providence, Rhode Island, 534-541, June 2012.

[C220] E. Strekalovskiy, A. Chambolle and D. Cremers, 
a Convex Representation for the Vectorial Mumford-Shah Functional, 
Providence, Rhode Island, June 2012.

[C221] J. Engel, J. Sturm and D. Cremers, 
Camera-Based Navigation of a Low-Cost Quadrocopter, 

[C222] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers, 
A Benchmark for the Evaluation of RGB-D SLAM Systems, 

[C223] J. Engel, J. Sturm and D. Cremers, 
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing, 

[C224] J. Sturm, W. Burgard and D. Cremers, 
Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark, 
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[C227] N. Ufer, M. Souiai and D. Cremers, 
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[C228] R. Paul, R. Triebel, D. Rus and P. Newman, 
Semantic Categorization of Outdoor Scenes with Uncertainty Estimates using Multi-Class Gaussian Process Classification, 

[C229] R. Triebel, R. Paul, D. Rus and P. Newman, 
Parsing Outdoor Scenes from Streamed 3D Laser Data Using Online Clustering and Incremental Belief Updates, 

[C230] U. Hubert, J. Stueckler and S. Behnke, 
Bayesian calibration of the hand-eye kinematics of an anthropomorphic robot, 
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[C231] J. Stueckler, N. Biresev and S. Behnke, 
Semantic mapping using object-class segmentation of RGB-D images, 
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[C232] J. Stueckler and S. Behnke, 
Integrating depth and color cues for dense multi-resolution scene mapping using RGB-D cameras, 
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[C233] 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.

[C234] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke, 
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Adaptive Multi-cue 3D Tracking of Arbitrary Objects, 

[C236] J. Stueckler and S. Behnke, 

[C237] M. Nieuwenhuisen, J. Stueckler, A. Berner, R. Klein and S. Behnke, 
Shape-Primitive Based Object Recognition and Grasping, 

[C238] J. Kläs, J. Stueckler and S. Behnke, 
Efficient Mobile Robot Navigation using 3D Surfel Grid Maps, 

[C239] J. Stueckler and S. Behnke, 
Robust Real-Time Registration of RGB-D Images using Multi-Resolution Surfel Representations, 

[C240] V. Usenko, F. Seidel, Z. Marton, D. Pangercic and M. Beetz, 
Furniture Classification using WWW CAD Models, 

[C241] F. R. Schmidt and Y. Boykov, 
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[C242] L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward, 
Segmentation with non-linear regional constraints via line-search cuts, 

[C243] A. Torsello, E. Rodola and A. Albarelli, 
Multiview Registration via Graph Diffusion of Dual Quaternions, 
2441-2448, 2011.

[C244] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello, 
RUNE-Tag: a High Accuracy Fiducial Marker with Strong Occlusion Resilience, 
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A Non-Cooperative Game for 3D Object Recognition in Cluttered Scenes, 
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[C246] A. Torsello, E. Rodola and A. Albarelli, 
Sampling Relevant Points for Surface Registration, 
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177-190, 2011.

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A Convex Framework for Image Segmentation with Moment Constraints,
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M. Schikora, M.Oispuu, W. Koch and D. Cremers,
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S. Madhogaria, M. Schikora, W. Koch and D. Cremers,
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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.

M. Oispuu and M. Schikora,
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[C268] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother, 
**Silhouette-Based Variational Methods for Single View Reconstruction**, 

[C269] 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**, 

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**Unsupervised 3D Object Discovery and Categorization for Mobile Robots**, 

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**Bayesian On-line Learning of Driving Behaviors**, 
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[C272] B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke, 
**Efficient Multi-resolution Plane Segmentation of 3D Point Clouds**, 

[C273] J. Stueckler and S. Behnke, 
**Following human guidance to cooperatively carry a large object**, 
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**Real-Time 3D Perception and Efficient Grasp Planning for Everyday Manipulation Tasks.**, 
*Proc. of the European Conf. on Mobile Robots (ECMR)*, 177-182, 2011.

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**Compliant Task-Space Control with Back-Drivable Servo Actuators**, 

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**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.

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**Interest point detection in depth images through scale-space surface analysis**, 
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[C279] F. R. Schmidt, H. Ackermann and B. Rosenhahn, 
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[C280] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov, 
Interactive Segmentation with Super-Labels, 

[C281] A. Albarelli, E. Rodola and A. Torsello, 
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spondence, 
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proach, 

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Multi-View Feature Matching, 

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A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation, 

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Robust Game-Theoretic Inlier Selection for Bundle Adjustment, 
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Loosely Distinctive Features for Robust Surface Alignment, 
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bidopsis Plants, 
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Passive Multi-Object Localization and Tracking Using Bearing Data, 
[C290] M. Schikora, D. Bender, W. Koch and D. Cremers,
Multi-target multi-sensor localization and tracking using passive antenna and optical sensors on UAVs,

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[C296] C. Nieuwenhuis and D. Kondermann,
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[C308] K. Gräve, J. Stueckler and S. Behnke,
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Improving People Awareness of Service Robots by Semantic Scene Knowledge,

[C311] D. Holz, R. Schnabel, D. Droeschel, J. Stueckler and S. Behnke,
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[C313] K. Gräve, J. Stueckler and S. Behnke,
Learning Motion Skills from Expert Demonstrations and Own Experience using Gaussian Process Regression,

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Intuitive Multimodal Interaction for Domestic Service Robots,

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Improving indoor navigation of autonomous robots by an explicit representation of doors,
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