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[C20] B. T. Do, V. Golkov, G. E. Gürel and D. Cremers, 
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[C21] P. Haeusser, J. Plapp, V. Golkov, E. Aljalbout and D. Cremers, 
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[C22] Nikolaus Mayer, Eddy Ilg, Philipp Fischer, Caner Hazirbas, Daniel Cremers, Alexey Dosovitskiy and Thomas Brox, 
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Discrete-Continuous ADMM for Transductive Inference in Higher-Order MRFs, 
2018.

[C25] L. von Stumberg, V. Usenko and D. Cremers, 
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May 2018.

[C26] D. Schubert, T. Goll, N. Demmel, V. Usenko, J. Stueckler and D. Cremers, 
The TUM VI Benchmark for Evaluating Visual-Inertial Odometry, 
October 2018.

[C27] X. Gao, R. Wang, N. Demmel and D. Cremers, 
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[C28] Z. Lähner, D. Cremers and T. Tung, 
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September 2018, Oral Presentation.

[C29] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers, 
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[C31] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel, 
Incremental Semi-Supervised Learning from Streams for Object Classification, 

6DoF Pose Estimation for Industrial Manipulation based on Synthetic Data, 
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Nov. 2018.

[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,
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Conference on Robot Learning (CoRL), 2018.

[C35] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,

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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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[C40] M. Jaimez, T. J. Cashman, A. Fitzgibbon, J. Gonzalez-Jimenez and D. Cremers,

[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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[C57] T. Möllenhoff and D. Cremers,
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[C58] Christian Nissler, Zoltan-Csaba Marton, Hannes Kisner, Ulrike Thomas and Rudolph Triebel,
A Method for Hand-Eye and Camera-to-Camera Calibration for Limited Fields of View,
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[C59] Tick Son Wang, Zoltan-Csaba Marton, Manuel Brucker and Rudolph Triebel,
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[C60] Maximilian Durner, Simon Kriegel, Sebastian Riedel, Manuel Brucker, Zoltan-Csaba Marton, Ferenc Balint-Beniczedi and Rudolph Triebel,
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A Variational Approach to Shape-from-shading Under Natural Illumination,

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Keyframe-Based Visual-Inertial Online SLAM with Relocalization,

[C64] F. Engelmann, J. Stueckler and B. Leibe,
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[C65] Peng, S., Haefner, B., Queau, Y., Cremers and D.,
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May 2016.

[C70] A. Narr, R. Triebel and D. Cremers,
Stream-based Active Learning for Efficient and Adaptive Classification of 3D
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,
May 2016.

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[C73] T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers,
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[C74] L. Ma, C. Kerl, J. Stueckler and D. Cremers,
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May 2016.

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A Photometrically Calibrated Benchmark For Monocular Visual Odometry,

[C76] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,

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[C78] T. Windheuser and D. Cremers,
A Convex Solution to Spatially-Regularized Correspondence Problems,
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2015.

[C84] J. Diebold, N. Demmel, C. Hazirbas, M. Möller and D. Cremers,
Interactive Multi-label Segmentation of RGB-D Images,
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Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Segmentation,
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A Fast Projection Method for Connectivity Constraints in Image Segmentation,
X.-C. Tai, E. Bae, T. F. Chan and M. Lysaker(Eds.), , 2015.

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Analysis of Surface Parametrizations for Modern Photometric Stereo Modeling,
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Adopting an Unconstrained Ray Model in Light-field Cameras for 3D Shape Reconstruction,
2015.

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Active Online Confidence Boosting for Efficient Object Classification,

Using Diffusion and Structural MRI for the Automated Segmentation of Multiple Sclerosis Lesions,
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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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2015.

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2015.

[C96] V. Golkov, A. Dosovitskiy, P. Sämann, J. I. Sperl, T. Sprenger, M. Czisch, M. I. Menzel, 
P. A. Gomez, A. Haase, T. Brox and D. Cremers, 
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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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V. Evers, M. Fiore, H. Hung, O. A. Islas Ramirez, M. Joosse, H. Kambhaita, T. Kucner, 
Rafi, M. van Rooij and L. Zhang, 
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in Busy Airports, 

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Real-Time Object Detection, Localization and Verification for Fast Robotic Depalletizing, 
2015.

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2015.

[C101] D. Caruso, J. Engel and D. Cremers, 
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2015.

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

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Super-Resolution Keyframe Fusion for 3D Modeling with High-Quality Textures, 
International Conference on 3D Vision (3DV), 2015.

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Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images, 
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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, 
CAPTCHA Recognition with Active Deep Learning, 
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[C109] 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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[C116] D. Weikersdorfer, D. B. Adrian, D. Cremers and J. Conrad, 
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Hong Kong, China, 2014.

[C118] E. Rodola, S. Rota Bulo, T. Windheuser, M. Vestner and D. Cremers,
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2014.

[C119] Y. Kee, M. Souiai, D. Cremers and J. Kim,
Sequential Convex Relaxation for Mutual-Information-Based Unsupervised
Figure-Ground Segmentation,
2014.

[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,
LSD-SLAM: Large-Scale Direct Monocular SLAM,
September 2014, Oral Presentation.

[C122] T. Schöps, J. Engel and D. Cremers,
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September 2014, Best Short Paper Award.

[C123] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers,
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2014.

[C124] M. Strobel, J. Diebold and D. Cremers,
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German Conference on Pattern Recognition (GCPR), Münster, Germany, September 2014, Oral Presentation.

[C125] R. Maier, J. Sturm and D. Cremers,
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[C126] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers,
Spatial and Temporal Interpolation of Multi-View Image Sequences,
Münster, Germany, Vol. 36, September 2014.

[C127] M. R. Oswald and D. Cremers,
Surface Normal Integration for Convex Space-time Multi-view Reconstruction,
2014.

[C128] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers,
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2014.

[C129] M. R. Oswald, J. Stühmer and D. Cremers,
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[C130] E. Strekalovskiy and D. Cremers,
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,
[C131] A. Kanezaki, E. Rodola and T. Harada, 
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[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.

[C134] O. Dunkley, J. Engel, J. Sturm and D. Cremers,
*Visual-Inertial Navigation for a Camera-Equipped 25g Nano-Quadrotor*,

[C135] R. Triebel, J. Stühmer, M. Souiai and D. Cremers,
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*German Conference on Pattern Recognition*, 2014.

[C136] S. Debnath, S. S. Baishya, R. Triebel, V. Dutt and D. Cremers,
*Environment-adaptive Learning: How Clustering Helps to Obtain Good Training Data*,

[C137] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
*Learning Similarities for Rigid and Non-Rigid Object Detection*,

[C138] D. Bender, M. Schikora, J. Sturm and D. Cremers,
*INS-Camera Calibration without Ground Control Points*,
9th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), 2014.

[C139] C. Kerl, M. Souiai, J. Sturm and D. Cremers,
*Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras*,

[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*,
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[C142] 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, June 2014.

[C143] J. Stueckler and S. Behnke,
Efficient deformable registration of multi-resolution surfel maps for object manipulation skill transfer,

[C144] 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.

[C145] M. Schwarz, J. Stueckler and S. Behnke,
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[C146] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,
Dense Elastic 3D Shape Matching,

[C147] Bergbauer, Julia, Tari and Sibel,
Wimmelbild Analysis with Approximate Curvature Coding Distance Images,

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Top-down visual search in Wimmelbild,

[C149] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
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ICCV Workshop on Graphical Models for Scene Understanding, 2013.

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Proximity Priors for Variational Semantic Segmentation and Recognition,
ICCV Workshop on Graphical Models for Scene Understanding, 2013.

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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.


[C163] D. Weikersdorfer, A. Schick and D. Cremers, 

[C164] 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, 

[C166] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers, 
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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.

[C168] 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.

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

[C170] F. Stangl, M. Souiai and D. Cremers, 
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35th German Conference on Pattern Recognition (GCPR), 2013.

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[C172] C. Kerl, J. Sturm and D. Cremers, 
Dense Visual SLAM for RGB-D Cameras, 

[C173] T. Naseer, J. Sturm and D. Cremers, 
FollowMe: Person Following and Gesture Recognition with a Quadrocopter, 

[C174] 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.
[C175] 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.

[C176] 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.

[C177] J. Sturm, E. Bylow, F. Kahl and D. Cremers,
CopyMe3D: Scanning and Printing Persons in 3D,
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[C178] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,
Efficient Shape Matching using Vector Extrapolation,
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[C179] J. Engel, J. Sturm and D. Cremers,
Semi-Dense Visual Odometry for a Monocular Camera,
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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[C181] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
Total Variation Regularization for Functions with Values in a Manifold,
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[C182] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Proportion Priors for Image Sequence Segmentation,
Sydney, Australia, December 2013.

[C183] 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.

[C184] 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.

[C185] 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.

[C186] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
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<td>Improving People Awareness of Service Robots by Semantic Scene Knowledge,</td>
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<th>[C301]</th>
<th>D. Holz, R. Schnabel, D. Droeschel, J. Stueckler and S. Behnke,</th>
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<td>Towards Semantic Scene Analysis with Time-of-flight Cameras,</td>
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<th>[C302]</th>
<th>H. Schulz, W. Liu, J. Stueckler and S. Behnke,</th>
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<th>K. Gräve, J. Stueckler and S. Behnke,</th>
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<th>M. Nieuwenhuisen, J. Stueckler and S. Behnke,</th>
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<td>Intuitive Multimodal Interaction for Domestic Service Robots,</td>
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<th>M. Nieuwenhuisen, J. Stueckler and S. Behnke,</th>
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<th>[C307]</th>
<th>Mösenlechner, Lorenz, Demmel, Nikolaus, Beetz and Michael,</th>
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<td>Becoming action-aware through reasoning about logged plan execution traces,</td>
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<th>A. Albarelli, E. Rodola, S. Rota Bulo and A. Torsello,</th>
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<td>Fast 3D surface reconstruction by unambiguous compound phase coding,</td>
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<th>M. R. Oswald, E. Toeppe, K. Kolev and D. Cremers,</th>
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<td>Jena, Germany, 171-180, September 2009. Received a DAGM Paper Award.</td>
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<th>F. R. Schmidt and D. Cremers,</th>
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