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[C72] D. Kochanov, A. Osep, J. Stueckler and B. Leibe,
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[C77] A. Kanezaki, E. Rodola and T. Harada,
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[C83] D. Mund, R. Triebel and D. Cremers,
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[C85] M.I. Menzel, T. Sprenger, E.T. Tan, V. Golkov, C.J. Hardy, L. Marinelli and J.I. Sperl,
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[C88] 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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*Real-Time Object Detection, Localization and Verification for Fast Robotic Depalletizing,*
2015.

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*Large-Scale Direct SLAM with Stereo Cameras,*
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*Large-Scale Direct SLAM for Omnidirectional Cameras,*
2015.

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*Semi-supervised Online Learning for Efficient Classification of Objects in 3D Data Streams,*
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[C97] C. Kerl, J. Stueckler and D. Cremers, 
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[C99] F. Stark, C. Hazirbas, R. Triebel and D. Cremers, 
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J. Shotton, 
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Compressed-Sensing Accelerated DSI Yielding Superior Image Quality, 
2014.

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Compressed-Sensing-Accelerated Diffusion Spectrum Imaging and Image De- 
noising by Means of Total Generalized Variation Regularization, 
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of Edges in Similar Diffusion-Weighted Images, 
2014.

Improved Diffusion Kurtosis Imaging and Direct Propagator Estimation Using 6-D Compressed Sensing, 
2014.

[C107] D. Weikerdorfer, D. B. Adrian, D. Cremers and J. Conrad, 
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2014.

[C108] F. Steinbruecker, J. Sturm and D. Cremers, 
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2014.

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Figure-Ground Segmentation, 
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Collision Avoidance for Quadrotrors with a Monocular Camera, 

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

[C113] T. Schöps, J. Engel and D. Cremers, 
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September 2014, Best Short Paper Award.

[C114] T. Windheuser, M. Vestner, E. Rodola, R. Triebel and D. Cremers, 
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[C116] R. Maier, J. Sturm and D. Cremers, 
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Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional, 

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[C124] M. Andreux, E. Rodola, M. Aubry and D. Cremers, 
Anisotropic Laplace-Beltrami Operators for Shape Analysis, 
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[C126] R. Triebel, J. Stühmer, M. Souiai and D. Cremers, 
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Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras,

[C131] J. Stueckler and S. Behnke,
Adaptive Tool-Use Strategies for Anthropomorphic Service Robots,

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Local Multi-Resolution Surfel Grids for MAV Motion Estimation and 3D Mapping,

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Dense Elastic 3D Shape Matching,

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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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SNR-dependent Quality Assessment of Compressed-Sensing-Accelerated Diffusion Spectrum Imaging Using a Fiber Crossing Phantom, 
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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, 
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C. Kerl, J. Sturm and D. Cremers, 
Robust Odometry Estimation for RGB-D Cameras, 
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E. Toeppe, C. Nieuwenhuis and D. Cremers, 
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P. Furgale, U. Schwesinger, M. Rufli, W. Derendarz, H. Grimmett, P. Mührfellner, S. Won- 
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Cattani, S. Brünning, S. Horstmann, M. Stellmacher, H. Mielenz, K. Köser, M. Beermann, 
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Toward Automated Driving in Cities using Close-to-Market Sensors, 

H. Grimmett, R. Paul, R. Triebel and I. Posner, 
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E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers, 
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Functions, 

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Demo Track of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at the 

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Learning Probabilistic Models for Mobile Manipulation Robots, 
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**Performance Evaluation of Narrow Band Methods for Variational Stereo**,  
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**Dense Visual SLAM for RGB-D Cameras**,  

[C164] T. Naseer, J. Sturm and D. Cremers,  
**FollowMe: Person Following and Gesture Recognition with a Quadrocopter**,  

[C165] M. Klodt, J. Sturm and D. Cremers,  
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[C167] D. Bender, M. Schikora, J. Sturm and D. Cremers,  
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*Unmanned Aerial Vehicle in Geomatics (UAV-g)*, Rostock, Germany, September 2013,  

Best research paper award.  

[C168] J. Sturm, E. Bylow, F. Kahl and D. Cremers,  
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**Total Variation Regularization for Functions with Values in a Manifold**,  
Sydney, Australia, December 2013.  

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**Proportion Priors for Image Sequence Segmentation**,  
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[C174] J. Stühmer, P. Schröder and D. Cremers,
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[C175] 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.

[C176] M. R. Oswald and D. Cremers,
A Convex Relaxation Approach to Space Time Multi-view 3D Reconstruction,
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[C177] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
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[C178] T. Naseer, J. Sturm and D. Cremers,
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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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The International Symposium on Robotics Research (ISRR), 2013.

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Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Shape Matching,

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Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,

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Joint detection and pose tracking of multi-resolution surfel models in RGB-D,

[C184] T. Fiolk, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
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mation of prefabricated parts,

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[C189] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald,
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nronments,

[C193] Dominik Joho AND Gian Diego Tipaldi AND Nikolas Engelhard AND Cyrill Stachniss
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struction,

[C194] M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit,
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[C195] M. Schikora, A. Gning, L. Mihaylova, D. Cremers and W. Koch,
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[C203] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
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[C217] J. Stueckler and S. Behnke, 
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[C218] M. Nieuwenhuisen, J. Stueckler, A. Berner, R. Klein and S. Behnke,  
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[C219] J. Kläś, J. Stueckler and S. Behnke,  
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[C221] V. Usenko, F. Seidel, Z. Marton, D. Pangeric and M. Beetz,  
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[C222] F. R. Schmidt and Y. Boykov,  
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[C224] A. Torsello, E. Rodola and A. Albarelli,  
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Geometrically Consistent Elastic Matching of 3D Shapes: A Linear Programming Solution,  
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[C229] M. Aubry, U. Schlickewei and D. Cremers,  
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On a linear programming approach to the discrete Willmore boundary value problem and generalizations,

[C231] E. Strekalovskiy and D. Cremers,
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[C232] B. Goldluecke and D. Cremers,
Introducing Total Curvature for Image Processing,
2011.

[C233] E. Strekalovskiy, B. Goldluecke and D. Cremers,
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2011.

[C234] M. Aubry, K. Kolev, B. Goldluecke and D. Cremers,
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[C236] J. Hess, J. Sturm and W. Burgard,
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[C239] C. Nieuwenhuis, E. Toeppe and D. Cremers,
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[C241] M. Aubry, U. Schlickewei and D. Cremers,
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[C242] F. Steinbruecker, J. Sturm and D. Cremers,
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[C245] S. Madhogaria, M. Schikora, W. Koch and D. Cremers,
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[C246] M. Schikora, W. Koch, R.L. Streit and D. Cremers,
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[C247] M. Oispuu and M. Schikora,
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[C248] M. Schikora, W. Koch and D. Cremers,
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[C249] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
Silhouette-Based Variational Methods for Single View Reconstruction,
M. R. Oswald, E. Toeppe, C. Nieuwenhuis and D. Cremers,
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A. Albarelli, E. Rodola and A. Torsello,
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Multi-target multi-sensor localization and tracking using passive antenna and optical sensors on UAVs,
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[C273] J. Stühmer, S. Gumhold and D. Cremers, 
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Vision-based Detection for Learning Articulation Models of Cabinet Doors and Drawers in Household Environments, 

[C281] S. Chitta, M. Piccoli and J. Sturm, 
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Operating Articulated Objects Based on Experience, 
[C283] R. Kaestner, N. Engelhard, R. Triebel and R. Siegwart,
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[C284] L. Spinello, R. Triebel, D. Vasquez, K. Arras and R Siegwart,
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Segmentation and Unsupervised Part-based Discovery of Repetitive Objects,

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[C293] H. Schulz, W. Liu, J. Stueckler and S. Behnke,
[C294] K. Gräve, J. Stueckler and S. Behnke,
Learning Motion Skills from Expert Demonstrations and Own Experience using Gaussian Process Regression,

[C295] M. Nieuwenhuisen, J. Stueckler and S. Behnke,
Intuitive Multimodal Interaction for Domestic Service Robots,

[C296] M. Nieuwenhuisen, J. Stueckler and S. Behnke,
Improving indoor navigation of autonomous robots by an explicit representation of doors,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 4895-4901, May 2010.

[C297] D. Droeschel, D. Holz, J. Stueckler and S. Behnke,
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[C298] Mösenlechner, Lorenz, Demmel, Nikolaus, Beetz and Michael,
Becoming action-aware through reasoning about logged plan execution traces,

[C299] A. Albarelli, E. Rodola, S. Rota Bulo and A. Torsello,
Fast 3D surface reconstruction by unambiguous compound phase coding,
the 2009 IEEE International Workshop on 3D Digital Imaging and Modeling (3DIM),

[C300] M. R. Oswald, E. Toeppe, K. Kolev and D. Cremers,
Non-Parametric Single View Reconstruction of Curved Objects using Convex Optimization,
Jena, Germany, 171-180, September 2009, Received a DAGM Paper Award.

[C301] F. R. Schmidt and D. Cremers,
A Closed-Form Solution for Image Sequence Segmentation with Dynamical Shape Priors,
Jena, Germany, September 2009.

[C302] F. R. Schmidt, E. Toeppe and D. Cremers,
Efficient Planar Graph Cuts with Applications in Computer Vision,
Miami, Florida, 351-356, June 2009, Received a CVPR Doctoral Spotlight Award.

[C303] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
A Convex Relaxation Approach for Computing Minimal Partitions,

[C304] A. Wedel, C. Rabe, A. Meissner, U. Franke and D. Cremers,
Detection and Segmentation of Independently Moving Objects from Dense Scene Flow,

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A Superresolution Framework for High-Accuracy Multiview Reconstruction,
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A Linear Programming Relaxation,
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[C311] T. Windheuser, T. Schoenemann and D. Cremers,
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[C312] F. Steinbruecker, T. Pock and D. Cremers,
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[C315] C. Eppner, J. Sturm, M. Bennewitz, C. Stachniss and W. Burgard,
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Kobe, Japan, May 2009.

[C316] H. Schulz, L. Ott, J. Sturm and W. Burgard,
Learning Kinematics from Direct Self-Observation Using Nearest-Neighbor Methods,

Towards Understanding Articulated Objects,
[C318] J. Sturm, V. Pradeep, C. Stachniss, C. Plagemann, K. Konolige and W. Burgard, 
*Learning Kinematic Models for Articulated Objects,*
*Proc. of the International Joint Conference on Artificial Intelligence (IJCAI)*, July 2009.

[C319] D. Meyer-Delius, J. Sturm and W. Burgard, 
*Regression-Based Online Situation Recognition for Vehicular Traffic Scenarios,*

[C320] A. Schneider, J. Sturm, C. Stachniss, M. Reisert, H. Burkhardt and W. Burgard, 
*Object Identification with Tactile Sensors Using Bag-of-Features,*

[C321] F. Steinbruecker, T. Pock and D. Cremers, 
*Advanced Data Terms for Variational Optic Flow Estimation,*
Braunschweig, Germany, 2009.

[C322] M. Schikora and B. Romba, 
*A Framework for Multiple Radar and Multiple 2D/3D Camera Fusion,*
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Luebeck, Germany, October 2009.

[C323] M. Schikora, 
*Global Optimal Multiple Object Detection using the Fusion of Shape and Color Information,*
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Bonn, Germany, August 2009.

[C324] M. Schikora, M. Häge, E. Ruthotto and K. Wild, 
*A Convex Formulation for Color Image Segmentation in the Context of Passive Emitter Localization,*
12th International Conference on Information Fusion (FUSION), Seattle, WA, USA, July 2009.

[C325] L. Spinello, A. Macho, R. Triebel and R. Siegwart, 
*Detecting Pedestrians at Very Small Scales,*

[C326] L. Spinello, R. Triebel and R. Siegwart, 
*Multiclass Multimodal Detection and Tracking in Urban Environments,*
*Proc. of Field and Service Robotics (FSR)*, 2009.

[C327] D. Engel, L. Spinello, R. Triebel, C. Curio, R. Siegwart and H. Bülthoff, 
*Medial Features for Superpixel Segmentation,*

[C328] J. Stueckler and S. Behnke, 
*Integrating indoor mobility, object manipulation, and intuitive interaction for domestic service tasks,*
*Proc. of the IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids)*, 506-513, December 2009.

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[C330] T. Schoenemann, F. R. Schmidt and D. Cremers,
Image Segmentation with Elastic Shape Priors via Global Geodesics in Product Spaces,

[C331] T. Pock, T. Schoenemann, G. Graber, H. Bischof and D. Cremers,
A Convex Formulation of Continuous Multi-Label Problems,
Marseille, France, October 2008.

[C332] A. Wedel, C. Rabe, T. Vaudrey, T. Brox, U. Franke and D. Cremers,
Efficient Dense Scene Flow from Sparse or Dense Stereo Data,
Marseille, France, October 2008.

[C333] A. Wedel, T. Pock, J. Braun, U. Franke and D. Cremers,
Duality TV-L1 Flow with Fundamental Matrix Prior,

[C334] M. Klodt, T. Schoenemann, K. Kolev, M. Schikora and D. Cremers,
An Experimental Comparison of Discrete and Continuous Shape Optimization Methods,
European Conference on Computer Vision (ECCV), Marseille, France, October 2008.

[C335] A. Wedel, T. Pock, C. Zach, D. Cremers and H. Bischof,
An Improved Algorithm for TV-L1 Optical Flow,

[C336] W. Trobin, T. Pock, D. Cremers and H. Bischof,
An Unbiased Second-Order Prior for High-Accuracy Motion Estimation,
Munich, Germany, Springer, , June 2008.

Markerless Motion Capture of Man-Machine Interaction,
Anchorage, Alaska, June 2008.

[C338] T. Schoenemann and D. Cremers,
Matching Non-rigidly Deformable Shapes Across Images: A Globally Optimal Solution,
Anchorage, Alaska, June 2008.

[C339] T. Schoenemann and D. Cremers,
Globally Optimal Shape-based Tracking in Real-time,
Anchorage, Alaska, June 2008.

[C340] T. Schoenemann and D. Cremers,
High Resolution Motion Layer Decomposition using Dual-space Graph Cuts,
Anchorage, Alaska, June 2008.

[C341] B. Rosenhahn, T. Brox, D. Cremers and H.-P. Seidel,
Modeling and Tracking Line-Constrained Mechanical Systems,

[C342] O. Kleinschmidt, T. Brox and D. Cremers,
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Int. Workshop on Local and Nonlocal Approximation, Lausanne, Switzerland, August 2008.
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[C343] C. Nieuwenhuis, R. Mester and C. Garbe,
A Statistical Confidence Measure for Optical Flows,
Marseille, France, 290-301, October 2008.

[C344] B. Andres, C. Nieuwenhuis, D. Kondermann, U. Köthe and R. Hamprecht,
On Errors-In-Variables Regression with Arbitrary Covariance and its Application to Optical Flow Estimation,
Anchorage, Alaska, 1-6, June 2008.

[C345] C. Nieuwenhuis, D. Kondermann and C. Garbe,
Postprocessing of Optical Flows via Surface Measures and Motion Inpainting,

[C346] J. Sturm, C. Plagemann and W. Burgard,
Unsupervised Body Scheme Learning through Self-Perception,

[C347] J. Sturm, C. Plagemann and W. Burgard,
Adaptive Body Scheme Models for Robust Robotic Manipulation,
Robotics: Science and Systems Conference (RSS), Zurich, Switzerland, June 2008.

[C348] J. Sturm, C. Plagemann and W. Burgard,
Body Scheme Learning and Life-Long Adaptation for Robotic Manipulation,
Proc. of the Workshop on Robot Manipulation at the Robotics: Science and Systems Conference (RSS),
Zurich, Switzerland, June 2008.

[C349] Kondermann, D., Nieuwenhuis, C., Berthe, A., Kertzscher, U., Garbe and C.,
Motion Estimation Based on a Temporal Model of Fluid Flows,

[C350] L. Spinello, R. Triebel and R. Siegwart,
Multimodal Detection and Tracking of Pedestrians in Urban Environments with Explicit Ground Plane Extraction,

[C351] L. Spinello, R. Triebel and R. Siegwart,
Multimodal People Detection and Tracking in Crowded Scenes,

[C352] J. Stueckler, H. Schulz and S. Behnke,
In-lane Localization in Road Networks using Curbs Detected in Omnidirectional Height Images,

[C353] J. Stueckler and S. Behnke,
Orthogonal wall correction for visual motion estimation,
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