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[C231] A. Kanezaki, E. Rodola, D. Cremers and T. Harada,
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International Conference on 3D Vision (3DV), 2014.

[C232] D. Bender, M. Schikora, J. Sturm and D. Cremers,
INS-Camera Calibration without Ground Control Points,
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[C233] C. Kerl, M. Souiai, J. Sturm and D. Cremers,
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cam-
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[C235] D. Droeschel, J. Stueckler and S. Behnke,
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Combining the Strengths of Sparse Interest Point and Dense Image Registra-
tion for RGB-D Odometry,
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[C237] J. Stueckler and S. Behnke,
Efficient deformable registration of multi-resolution surfel maps for object ma-
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Proc. of the IEEE International Conference on Robotics and Automation (ICRA), 994-
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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.

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Mobile Teleoperation Interfaces with Adjustable Autonomy for Personal Ser-
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Proceedings of the 2014 ACM/IEEE International Conference on Human-robot Interacti-
[C240] F. R. Schmidt, T. Windheuser, U. Schlickewei and D. Cremers,
Dense Elastic 3D Shape Matching,

[C241] J Bergbauer and S Tari,
Wimmelbild Analysis with Approximate Curvature Coding Distance Images,
A. Kuijper, K. Bredies, T. Pock and H. Bischof(Eds.), Scale Space and Variational Me-
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[C242] J Bergbauer and S Tari,
Top-down visual search in Wimmelbild,

[C243] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
Can a fully unconstrained imaging model be applied effectively to central cam-
eras?,

[C244] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
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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 Com-
pressed Sensing on Diffusion MR Image Reconstruction and Kurtosis Tensor
Estimation,
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Meeting, 2013, Oral Presentation.

[C247] V. Golkov, T. Sprenger, M.I. Menzel, D. Cremers and J.I. Sperl,
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tensity Inhomogeneity Correction and Noise Non-Stationarity Correction,
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Reconstruction, Regularization, and Quality in Diffusion MRI Using the Ex-
ample of Accelerated Diffusion Spectrum Imaging,
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Corrected Joint SENSE Reconstruction, Low-Rank Constraints, and Compressed-Sensing-Accelerated Diffusion Spectrum Imaging in Denoising
and Kurtosis Tensor Estimation,
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Introspective Active Learning for Scalable Semantic Mapping,

[C260] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers,
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions,

[C261] 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.

[C262] 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.

[C263] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
A Co-occurrence Prior for Continuous Multi-Label Optimization,

[C264] F. Stangl, M. Souiai and D. Cremers,
Performance Evaluation of Narrow Band Methods for Variational Stereo,
35th German Conference on Pattern Recognition (GCPR), 2013.

[C265] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,
Efficient Convex Optimization for Minimal Partition Problems with Volume Constraints,

[C266] C. Kerl, J. Sturm and D. Cremers,
Dense Visual SLAM for RGB-D Cameras,

[C267] T. Naseer, J. Sturm and D. Cremers,
FollowMe: Person Following and Gesture Recognition with a Quadrocopter,

[C268] 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.

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Dense Tracking and Mapping with a Quadrocopter,
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[C270] 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.

[C271] J. Sturm, E. Bylow, F. Kahl and D. Cremers,  
CopyMe3D: Scanning and Printing Persons in 3D,  
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[C272] E. Rodola, T. Harada, Y. Kuniyoshi and D. Cremers,  
Efficient Shape Matching using Vector Extrapolation,  

[C273] J. Engel, J. Sturm and D. Cremers,  
Semi-Dense Visual Odometry for a Monocular Camera,  
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[C274] E. Rodola, A. Torsello, T. Harada, Y. Kuniyoshi and D. Cremers,  
Elastic Net Constraints for Shape Matching,  
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[C275] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,  
Total Variation Regularization for Functions with Values in a Manifold,  
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[C276] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,  
Proportion Priors for Image Sequence Segmentation,  
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[C277] J. Stühmer, P. Schröder and D. Cremers,  
Tree Shape Priors with Connectivity Constraints using Convex Relaxation on General Graphs,  
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[C278] G. Kuschk and D. Cremers,  
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[C279] M. R. Oswald and D. Cremers,  
A Convex Relaxation Approach to Space Time Multi-view 3D Reconstruction,  
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[C280] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,  
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,  
IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, 2013.
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Interactive Person Following and Gesture Recognition with a Flying Robot,
Proc. of the Assistance and Service Robotics Workshop (ASROB) at the IEEE. Int. Conf. on Intelligent Robots and Systems (IROS), Nov. 2013.

Driven Learning for Driving: How Introspection Improves Semantic Mapping,
The International Symposium on Robotics Research (ISRR), 2013.

[C283] D. Cremers, E. Rodola and T. Windheuser,
Relaxations for Minimizing Metric Distortion and Elastic Energies for 3D Shape Matching,

[C284] M. Schadler, J. Stueckler and S. Behnke,
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[C285] J. Stueckler and S. Behnke,
Efficient Dense 3D Rigid-Body Motion Segmentation in RGB-D Video,

[C286] M. McElhone, J. Stueckler and S. Behnke,
Joint detection and pose tracking of multi-resolution surfel models in RGB-D,

[C287] T. Fiolka, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
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[C288] A. Berner, J Li, D. Holz, J. Stueckler, S. Behnke and R. Klein,
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[C289] J. Stueckler and S. Behnke,
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[C290] M. Nieuwenhuisen, D. Droeschel, D. Holz, J. Stueckler, A. Berner, J Li, R. Klein and S. Behnke,
Mobile bin picking with an anthropomorphic service robot,

[C291] L. Gorelick, F. R. Schmidt and Y. Boykov,
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C292] L. Ma, T. Whelan, E. Bondarev, P. H. N. de With and J. McDonald, 
Planar simplification and texturing of dense point cloud maps, 

C293] E. Rodola, A.M. Bronstein, A. Albarelli, F. Bergamasco and A. Torsello, 
A game-theoretic approach to deformable shape matching, 

C294] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard, 
An Evaluation of the RGB-D SLAM System, 

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A Generalized Framework for Opening Doors and Drawers in Kitchen Environments, 

C296] D Joho, GD Tipaldi, N Engelhard, C Stachniss and W Burgard, 
Nonparametric Bayesian Models for Unsupervised Scene Analysis and Reconstruction, 

C297] M. Schikora, A. Gning, L. Mihaylova, D. Cremers, W. Koch and R. Streit, 
Box-Particle Intensity Filter, 

C298] M. Schikora, A. Gning, L. Mihaylova, D. Cremers and W. Koch, 
Box-Particle PHD Filter for Multi-Target Tracking, 
15th International Conference on Information Fusion (FUSION), Singapore, July 2012.

C299] L. Zhang, J. Sturm, D. Cremers and D. Lee, 
Real-Time Human Motion Tracking using Multiple Depth Cameras, 

C300] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers, 
Nonmetric Priors for Continuous Multilabel Optimization, 

C301] T. Windheuser, H. Ishikawa and D. Cremers, 
Generalized Roof Duality for Multi-Label Optimization: Optimal Lower Bounds and Persistency, 
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Meeting on Image Recognition and Understanding, Fukuoka, Japan, aug 2012.

C303] M. R. Oswald, E. Toeppe and D. Cremers, 
Fast and Globally Optimal Single View Reconstruction of Curved Objects, 
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Providence, Rhode Island, 534-541, jun 2012.
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[C304] E. Strekalovskiy, A. Chambolle and D. Cremers,
A Convex Representation for the Vectorial Mumford-Shah Functional,
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Providence, Rhode Island, jun 2012.

[C305] J. Engel, J. Sturm and D. Cremers,
Camera-Based Navigation of a Low-Cost Quadrocopter,

[C306] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,
A Benchmark for the Evaluation of RGB-D SLAM Systems,

[C307] J. Engel, J. Sturm and D. Cremers,
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing,

[C308] J. Sturm, W. Burgard and D. Cremers,
Evaluating Egomotion and Structure-from-Motion Approaches Using the TUM RGB-D Benchmark,

Evaluation of DSI Imaging with Compressed Sensing under the Presence of Different Noise Levels on a Diffusion Phantom,

Comparison of Diffusion Kurtosis Tensor Estimation Methods in an Advanced Quality Assessment Framework,

[C311] N. Ufer, M. Souiai and D. Cremers,
Wehrli 2.0: An Algorithm for "Tidying up Art",

[C312] R. Paul, R. Triebel, D. Rus and P. Newman,
Semantic Categorization of Outdoor Scenes with Uncertainty Estimates using Multi-Class Gaussian Process Classification,

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[C314] U. Hubert, J. Stueckler and S. Behnke,
Bayesian calibration of the hand-eye kinematics of an anthropomorphic robot,
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[C315] J. Stueckler, N. Biresev and S. Behnke,
Semantic mapping using object-class segmentation of RGB-D images,

[C316] J. Stueckler and S. Behnke,
Integrating depth and color cues for dense multi-resolution scene mapping using RGB-D cameras,
Proc. of the IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI), 162-167, sep 2012.

[C317] S. Muszynski, J. Stueckler and S. Behnke,
Adjustable autonomy for mobile teleoperation of personal service robots,
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[C318] T. Fiolk, J. Stueckler, D. A. Klein, D. Schulz and S. Behnke,
SURE: Surface Entropy for Distinctive 3D Features,

[C319] G. M. Garcia, D. A. Klein, J. Stueckler, S. Frintrop and A. B. Cremers,
Adaptive Multi-cue 3D Tracking of Arbitrary Objects,

[C320] J. Stueckler and S. Behnke,

[C321] M. Nieuwenhuisen, J. Stueckler, A. Berner, R. Klein and S. Behnke,
Shape-Primitive Based Object Recognition and Grasping,

[C322] J. Kläas, J. Stueckler and S. Behnke,
Efficient Mobile Robot Navigation using 3D Surfel Grid Maps,

[C323] J. Stueckler and S. Behnke,
Robust Real-Time Registration of RGB-D Images using Multi-Resolution Surfel Representations,

[C324] V. Usenko, F. Seidel, Z. Marton, D. Pangercic and M. Beetz,
Furniture Classification using WWW CAD Models,

[C325] F. R. Schmidt and Y. Boykov,
Hausdorff Distance Constraint for Multi-Surface Segmentation,
All: 1

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[C326] L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward,
Segmentation with non-linear regional constraints via line-search cuts,

[C327] A. Torsello, E. Rodola and A. Albarelli,
Multiview Registration via Graph Diffusion of Dual Quaternions,
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2441-2448, 2011.

[C328] F. Bergamasco, A. Albarelli, E. Rodola and A. Torsello,
RUNE-Tag: a High Accuracy Fiducial Marker with Strong Occlusion Resilience,
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 113-120, 2011.

[C329] A. Albarelli, E. Rodola and A. Torsello,
A Non-Cooperative Game for 3D Object Recognition in Cluttered Scenes,

[C330] A. Torsello, E. Rodola and A. Albarelli,
Sampling Relevant Points for Surface Registration,

[C331] T. Windheuser, U. Schlickewei, F. R. Schmidt and D. Cremers,
Geometrically Consistent Elastic Matching of 3D Shapes: A Linear Programming Solution,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.

[C332] M. Aubry, U. Schlickewei and D. Cremers,
Pose-Consistent 3D Shape Segmentation Based on a Quantum Mechanical Feature Descriptor,

[C333] T. Schoenemann, S. Masnou and D. Cremers,
On a linear programming approach to the discrete Willmore boundary value problem and generalizations,

[C334] E. Strekalovskiy and D. Cremers,
Total Variation for Cyclic Structures: Convex Relaxation and Efficient Minimization,

[C335] B. Goldluecke and D. Cremers,
Introducing Total Curvature for Image Processing,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.

[C336] E. Strekalovskiy, B. Goldluecke and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling Problems,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.
M. Aubry, K. Kolev, B. Goldluecke and D. Cremers,
Decoupling Photometry and Geometry in Dense Variational Camera Calibration,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.

E. Strekalovskiy and D. Cremers,
Generalized Ordering Constraints for Multilabel Optimization,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.

J. Hess, J. Sturm and W. Burgard,
Learning the State Transition Model to Efficiently Clean Surfaces with Mobile Manipulation Robots,
Proc. of the Workshop on Manipulation under Uncertainty at the IEEE Int. Conf. on Robotics and Automation (ICRA), Shanghai, China, May 2011.

N. Engelhard, F. Endres, J. Hess, J. Sturm and W. Burgard,
Real-time 3D visual SLAM with a hand-held camera,

J. Sturm, S. Magnenat, N. Engelhard, F. Pomerleau, F. Colas, W. Burgard, D. Cremers and R. Siegwart,
Towards a benchmark for RGB-D SLAM evaluation,

C. Nieuwenhuis, E. Toeppe and D. Cremers,
Space-Varying Color Distributions for Interactive Multiregion Segmentation: Discrete versus Continuous Approaches,

M. Klodt and D. Cremers,
A Convex Framework for Image Segmentation with Moment Constraints,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.

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The Wave Kernel Signature: A Quantum Mechanical Approach To Shape Analysis,
*IEEE International Conference on Computer Vision (ICCV) - Workshop on Dynamic Shape Capture and Analysis (4DMOD)*, 2011.

F. Steinbruecker, J. Sturm and D. Cremers,
Real-Time Visual Odometry from Dense RGB-D Images,
Workshop on Live Dense Reconstruction with Moving Cameras at the Intl. Conf. on Computer Vision (ICCV), 2011.

J. Becker, C. Bersch, D. Pangeric, B. Pitzer, T. Rühr, B. Sankaran, J. Sturm, C. Stachniss, M. Beetz and W. Burgard,
Mobile Manipulation of Kitchen Containers,
Proc. of the IROS’11 Workshop on Results, Challenges and Lessons Learned in Advancing Robots with a Common Platform, San Francisco, CA, USA, 2011.
M. Schikora, M. Oispuu, W. Koch and D. Cremers,
**Multiple Source Localization Based on Biased Bearings Using the Intensity Filter - Approach and Experimental Results,**
4th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing, San Juan, Puerto Rico, December 2011.

S. Madhogaria, M. Schikora, W. Koch and D. Cremers,
**Pixel-based Classification Method for Detecting Unhealthy Regions in Leaf Images,**
6th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), Berlin, Germany, September 2011.

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,
**Multiple Emitter Localization Using a Realistic Airborne Array Sensor,**
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M. Schikora, W. Koch and D. Cremers,
**Multi-object tracking via high accuracy optical flow and finite set statistics,**
International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prag, Czech Republic, Mai 2011.

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,
**A Survey on Geometry Recovery from a Single Image with Focus on Curved Object Reconstruction,**

J. Shin, R. Triebel and R. Siegwart,
**Unsupervised 3D Object Discovery and Categorization for Mobile Robots,**

J. Maye, R. Triebel, L. Spinello and R. Siegwart,
**Bayesian On-line Learning of Driving Behaviors,**

B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke,
**Efficient Multi-resolution Plane Segmentation of 3D Point Clouds,**
[C357] J. Stueckler and S. Behnke,
Following human guidance to cooperatively carry a large object,

[C358] J. Stueckler, R. Steffens, D. Holz and S. Behnke,
Real-Time 3D Perception and Efficient Grasp Planning for Everyday Manipulation Tasks.,
Proc. of the European Conf. on Mobile Robots (ECMR), 177-182, 2011.

[C359] J. Stueckler and S. Behnke,
Compliant Task-Space Control with Back-Drivable Servo Actuators,

[C360] D. Droeschel, J. Stueckler, D. Holz and S. Behnke,
Towards joint attention for a domestic service robot - person awareness and gesture recognition using Time-of-Flight cameras,
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[C361] J. Stueckler and S. Behnke,
Interest point detection in depth images through scale-space surface analysis,
Proc. of the IEEE Int. Conf. on Robotics and Automation (ICRA), 3568-3574, may 2011.

[C362] D. Droeschel, J. Stueckler and S. Behnke,
Learning to Interpret Pointing Gestures with a Time-of-flight Camera,

[C363] F. R. Schmidt, H. Ackermann and B. Rosenhahn,
Multilinear Model Estimation with L2-Regularization,

[C364] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,
Interactive Segmentation with Super-Labels,

[C365] A. Albarelli, E. Rodola and A. Torsello,
Robust Camera Calibration using Inaccurate Targets,

[C366] E. Rodola, A. Albarelli and A. Torsello,
A Game-Theoretic Approach to Robust Selection of Multi-View Point Correspondence,
20th International Conference on Pattern Recognition (ICPR), 57-60, 2010.

[C367] A. Albarelli, E. Rodola, A. Cavallarin and A. Torsello,
Robust Figure Extraction on Textured Background: a Game-Theoretic Approach,
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[C368] E. Rodola, A. Albarelli and A. Torsello,
A Game-Theoretic Approach to the Enforcement of Global Consistency in Multi-View Feature Matching,

[C369] A. Albarelli, E. Rodola and A. Torsello,
A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation,

[C370] A. Albarelli, E. Rodola and A. Torsello,
Robust Game-Theoretic Inlier Selection for Bundle Adjustment,
*5th International Symposium on 3D Data Processing, Visualization and Transmission (3DPVT)*, 2010, **Best Student Paper Award**.

[C371] A. Albarelli, E. Rodola and A. Torsello,
Loosely Distinctive Features for Robust Surface Alignment,

[C372] M. Schikora, A. Schikora, K.-H. Kogel, W. Koch and D. Cremers,
Probabilistic Classification of Disease Symptoms caused by Salmonella on Arabidopsis Plants,
*5th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF)*, Leipzig, Germany, September 2010.

[C373] M. Schikora, D. Bender, D. Cremers and W. Koch,
Passive Multi-Object Localization and Tracking Using Bearing Data,

[C374] M. Schikora, D. Bender, W. Koch and D. Cremers,
Multi-target multi-sensor localization and tracking using passive antenna and optical sensors on UAVs,

[C375] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
Image-based 3D Modeling via Cheeger Sets,
*Asian Conference on Computer Vision*, Queenstown, New Zealand, 53-64, Nov 2010, **Received Honorable Mention Award**.

[C376] J. Stühmer, S. Gunhold and D. Cremers,
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*Pattern Recognition (Proc. DAGM)*, Darmstadt, Germany, 11-20, September 2010.

[C377] J. Stühmer, S. Gunhold and D. Cremers,
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*ECCV Workshop on Computer Vision on GPUs (CVGPU)*, Heraklion, Greece, September 2010.

[C378] B. Goldluecke and D. Cremers,
An Approach to Vectorial Total Variation based on Geometric Measure Theory,
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2010.
[C379] B. Goldluecke and D. Cremers,
Convex Relaxation for Multilabel Problems with Product Label Spaces,

[C380] C. Nieuwenhuis and D. Kondermann,
Complex Motion Models for Simple Optical Flow Estimation,
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