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[C229] T. Schoenemann, S. Masnou and D. Cremers,
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[C230] E. Strekalovskiy and D. Cremers,
Total Variation for Cyclic Structures: Convex Relaxation and Efficient Minimization,

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

[C232] E. Strekalovskiy, B. Goldluecke and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling Problems,
2011.

[C233] M. Aubry, K. Kolev, B. Goldluecke and D. Cremers,
Decoupling Photometry and Geometry in Dense Variational Camera Calibration,
2011.

[C234] E. Strekalovskiy and D. Cremers,
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2011.
[C235] J. Hess, J. Sturm and W. Burgard,
Learning the State Transition Model to Efficiently Clean Surfaces with Mobile Manipulation Robots,
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[C236] N. Engelhard, F. Endres, J. Hess, J. Sturm and W. Burgard,
Real-time 3D visual SLAM with a hand-held camera,

Towards a benchmark for RGB-D SLAM evaluation,

[C238] C. Nieuwenhuis, E. Toeppe and D. Cremers,
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177-190, 2011.

[C239] M. Klodt and D. Cremers,
A Convex Framework for Image Segmentation with Moment Constraints,
2011.

[C240] M. Aubry, U. Schlickewei and D. Cremers,
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[C241] 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.

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.

[C243] M. Schikora, M.Oispuu, W. Koch and D. Cremers,
Multiple Source Localization Based on Biased Bearings Using the Intensity Filter - Approach and Experimental Results,

[C244] 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.
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[C245] 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.

[C246] M. Oispuu and M. Schikora,
Multiple Emitter Localization Using a Realistic Airborne Array Sensor,
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[C247] M. Schikora, W. Koch and D. Cremers,
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International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prag, Czech Republic, Mai 2011.

[C248] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
Silhouette-Based Variational Methods for Single View Reconstruction,

[C249] 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,

[C250] J. Shin, R. Triebel and R. Siegwart,
Unsupervised 3D Object Discovery and Categorization for Mobile Robots,

[C251] J. Maye, R. Triebel, L. Spinello and R. Siegwart,
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2011.

[C252] B. Oehler, J. Stueckler, J. Welle, D. Schulz and S. Behnke,
Efficient Multi-resolution Plane Segmentation of 3D Point Clouds,

[C253] J. Stueckler and S. Behnke,
Following human guidance to cooperatively carry a large object,
Proc. of the 11th IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids), 218-223, October 2011.

[C254] 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.

[C255] J. Stueckler and S. Behnke,
Compliant Task-Space Control with Back-Drivable Servo Actuators,
[C256] 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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[C257] J. Stueckler and S. Behnke,  
Interest point detection in depth images through scale-space surface analysis,  
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[C258] D. Droeschel, J. Stueckler and S. Behnke,  
Learning to Interpret Pointing Gestures with a Time-of-flight Camera,  

[C259] F. R. Schmidt, H. Ackermann and B. Rosenhahn,  
Multilinear Model Estimation with L2-Regularization,  

[C260] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,  
Interactive Segmentation with Super-Labels,  
20th International Conference on Pattern Recognition (ICPR), 57-60, 2010.

[C261] A. Albarelli, E. Rodola and A. Torsello,  
Robust Camera Calibration using Inaccurate Targets,  
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[C262] E. Rodola, A. Albarelli and A. Torsello,  
A Game-Theoretic Approach to Robust Selection of Multi-View Point Correspondence,  
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[C263] A. Albarelli, E. Rodola, A. Cavallarin and A. Torsello,  
Robust Figure Extraction on Textured Background: a Game-Theoretic Approach,  

[C264] E. Rodola, A. Albarelli and A. Torsello,  
A Game-Theoretic Approach to the Enforcement of Global Consistency in Multi-View Feature Matching,  

[C265] A. Albarelli, E. Rodola and A. Torsello,  
A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation,  

[C266] 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.

[C267] A. Albarelli, E. Rodola and A. Torsello,  
Loosely Distinctive Features for Robust Surface Alignment,  
519-532, 2010.
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.

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

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

E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,  
Image-based 3D Modeling via Cheeger Sets,  
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J. Stühmer, S. Gumhold and D. Cremers,  
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J. Stühmer, S. Gumhold and D. Cremers,  
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B. Goldlücke and D. Cremers,  
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B. Goldlücke and D. Cremers,  
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C. Nieuwenhuis and D. Kondermann,  
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C. Nieuwenhuis, B. Berkels and M. Rumpf,  
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J. Sturm, K. Konolige, C. Stachniss and W. Burgard,  
3D Pose Estimation, Tracking and Model Learning of Articulated Objects from Dense Depth Video using Projected Texture Stereo,  
[C279] J. Sturm, K. Konolige, C. Stachniss and W. Burgard,
Vision-based Detection for Learning Articulation Models of Cabinet Doors and Drawers in Household Environments,

[C280] S. Chitta, M. Piccoli and J. Sturm,
Tactile Object Class and Internal State Recognition for Mobile Manipulation,

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Operating Articulated Objects Based on Experience,

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A Bayesian Approach to Learning 3D Representations of Dynamic Environments,

[C283] L. Spinello, R. Triebel, D. Vasquez, K. Arras and R. Siegwart,
Exploiting Repetitive Object Patterns for Model Compression and Completion,

[C284] R. Triebel, J. Shin and R. Siegwart,
Segmentation and Unsupervised Part-based Discovery of Repetitive Objects,

[C285] L. Spinello, K. O. Arras, R. Triebel and R. Siegwart,
A Layered Approach to People Detection in 3D Range Data,
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Improving People Awareness of Service Robots by Semantic Scene Knowledge,
del Solar, Javier Ruiz, Chown, Eric, Plöger and Paul-Gerhard(Eds.), RobuCup, Springer,

[C291] D. Holz, R. Schnabel, D. Droeschel, J. Stueckler and S. Behnke,
Towards Semantic Scene Analysis with Time-of-flight Cameras,
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[C292] H. Schulz, W. Liu, J. Stueckler and S. Behnke,
Utilizing the Structure of Field Lines for Efficient Soccer Robot Localization,
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[C293] K. Gräve, J. Stueckler and S. Behnke,
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using Gaussian Process Regression,

[C294] M. Nieuwenhuisen, J. Stueckler and S. Behnke,
Intuitive Multimodal Interaction for Domestic Service Robots,

[C295] M. Nieuwenhuisen, J. Stueckler and S. Behnke,
Improving indoor navigation of autonomous robots by an explicit representa-
tion of doors,
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[C296] D. Droeschel, D. Holz, J. Stueckler and S. Behnke,
Using Time-of-Flight cameras with active gaze control for 3D collision avoi-
dance,

[C297] Mösenlechner, Lorenz, Demmel, Nikolaus, Beetz and Michael,
Becoming action-aware through reasoning about logged plan execution traces,

[C298] 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),

[C299] 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.

[C300] F. R. Schmidt and D. Cremers,
A Closed-Form Solution for Image Sequence Segmentation with Dynamical
Shape Priors,
Jena, Germany, September 2009.
[C301] 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.

[C302] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
A Convex Relaxation Approach for Computing Minimal Partitions,

[C303] A. Wedel, C. Rabe, A. Meissner, U. Franke and D. Cremers,
Detection and Segmentation of Independently Moving Objects from Dense Scene Flow,

[C304] B. Goldluecke and D. Cremers,
A Superresolution Framework for High-Accuracy Multiview Reconstruction,
Jena, Germany, 2009, Received DAGM Best Paper Award.

[C305] B. Goldluecke and D. Cremers,
Superresolution Texture Maps for Multiview Reconstruction,
Kyoto, Japan, 2009.

[C306] A. Sellent, M. Eisemann, B. Goldluecke, T. Pock, D. Cremers and M. Magnor,
Variational Optical Flow from Alternate Exposure Images,
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[C307] T. Pock, D. Cremers, H. Bischof and A. Chambolle,
An Algorithm for Minimizing the Piecewise Smooth Mumford-Shah Functional,
Kyoto, Japan, 2009.

[C308] A. Wedel, D. Cremers, T. Pock and H. Bischof,
Structure- and Motion-adaptive Regularization for High Accuracy Optic Flow,
Kyoto, Japan, 2009.

[C309] T. Schoenemann, F. Kahl and D. Cremers,
Curvature Regularity for Region-based Image Segmentation and Inpainting:
A Linear Programming Relaxation,
Kyoto, Japan, 2009.

[C310] T. Windheuser, T. Schoenemann and D. Cremers,
Beyond Connecting the Dots: A Polynomial-time Algorithm for Segmentation and Boundary Estimation with Imprecise User Input,
Kyoto, Japan, 2009.

[C311] F. Steinbruecker, T. Pock and D. Cremers,
Large Displacement Optical Flow Computation without Warping,
Kyoto, Japan, 2009.

[C312] D. Mitzel, T. Pock, T. Schoenemann and D. Cremers,
Video Super Resolution using Duality Based TV-L1 Optical Flow,
Jena, Germany, 2009.

[C313] B. Berkels, C. Nieuwenhuis, C. Garbe and M. Rumpf,
Reconstructing Optical Flow Fields by Motion Inpainting,
[C314] C. Eppner, J. Sturm, M. Bennewitz, C. Stachniss and W. Burgard,
Imitation Learning with Generalized Task Descriptions,
Kobe, Japan, May 2009.

[C315] H. Schulz, L. Ott, J. Sturm and W. Burgard,
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Methods,

[C316] J. Sturm, C. Stachniss, V. Pradeep, C. Plagemann, K. Konolige and W. Burgard,
Towards Understanding Articulated Objects,
Proc. of the Workshop on Robot Manipulation at Robotics: Science and Systems Confe-
rence (RSS), June 2009.

Learning Kinematic Models for Articulated Objects,
Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), July 2009.

[C318] D. Meyer-Delius, J. Sturm and W. Burgard,
Regression-Based Online Situation Recognition for Vehicular Traffic Scenarios,

[C319] A. Schneider, J. Sturm, C. Stachniss, M. Reisert, H. Burkhardt and W. Burgard,
Object Identification with Tactile Sensors Using Bag-of-Features,

[C320] F. Steinbruecker, T. Pock and D. Cremers,
Advanced Data Terms for Variational Optic Flow Estimation,
Braunschweig, Germany, 2009.

[C321] M. Schikora and B. Romba,
A Framework for Multiple Radar and Multiple 2D/3D Camera Fusion,
4th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF),
Luebeck, Germany, October 2009.

[C322] M. Schikora,
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Information,
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Pattern Recognition (EMMCVPR), Bonn, Germany, August 2009.

[C323] 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
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[C324] L. Spinello, A. Macho, R. Triebel and R. Siegwart,
Detecting Pedestrians at Very Small Scales,

[C325] L. Spinello, R. Triebel and R. Siegwart,
Multiclass Multimodal Detection and Tracking in Urban Environments,
Proc. of Field and Service Robotics (FSR), 2009.
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[C338] T. Schoenemann and D. Cremers,
Globally Optimal Shape-based Tracking in Real-time,
Anchorage, Alaska, June 2008.

[C339] T. Schoenemann and D. Cremers,
High Resolution Motion Layer Decomposition using Dual-space Graph Cuts,
Anchorage, Alaska, June 2008.

[C340] B. Rosenhahn, T. Brox, D. Cremers and H.-P. Seidel,
Modeling and Tracking Line-Constrained Mechanical Systems,

[C341] O. Kleinschmidt, T. Brox and D. Cremers,
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Int. Workshop on Local and Nonlocal Approximation, Lausanne, Switzerland, August 2008.

[C342] C. Nieuwenhuis, R. Mester and C. Garbe,
A Statistical Confidence Measure for Optical Flows,
Marseille, France, 290-301, October 2008.

[C343] B. Andres, C. Nieuwenhuis, D. Kondermann, U. Köthe and R. Hamprecht,
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Anchorage, Alaska, 1-6, June 2008.

[C344] C. Nieuwenhuis, D. Kondermann and C. Garbe,
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[C345] J. Sturm, C. Plagemann and W. Burgard,
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[C349] L. Spinello, R. Triebel and R. Siegwart,
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[C350] L. Spinello, R. Triebel and R. Siegwart,
Multimodal People Detection and Tracking in Crowded Scenes,
J. Stueckler, H. Schulz and S. Behnke,
In-lane Localization in Road Networks using Curbs Detected in Omnidirectional Height Images,

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Orthogonal wall correction for visual motion estimation,
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S. Frintrop, M. Klodt and E. Rome,
A Real-time Visual Attention System Using Integral Images,
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S. May, M. Klodt, E. Rome and R. Breithaupt,
GPU-accelerated Affordance Cueing based on Visual Attention,

K. Kolev, M. Klodt, T. Brox and D. Cremers,
Propagated Photoconsistency and Convexity in Variational Multiview 3D Reconstruction,

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Continuous Global Optimization in Multiview 3D Reconstruction,

T. Brox, B. Rosenhahn, D. Cremers and H.-P. Seidel,
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T. Schoenemann and D. Cremers,
Globally Optimal Image Segmentation with an Elastic Shape Prior,
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Introducing Curvature into Globally Optimal Image Segmentation: Minimum Ratio Cycles on Product Graphs,
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Fast Matching of Planar Shapes in Sub-cubic Runtime,
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F. R. Schmidt, E. Toeppe, D. Cremers and Y. Boykov,
Intrinsic Mean for Semimetrical Shape Retrieval via Graph Cuts,

A. Wedel and U. Franke,
Monocular Video Serves RADAR-based Emergency Braking,
Intelligent Vehicles, Istanbul, Turkey, June 2007.
[C363] A. Wedel, T. Schoenemann, T. Brox and D. Cremers, 
WarpCut - Fast obstacle segmentation in monocular video, 

[C364] B. Rosenhahn, T. Brox, D. Cremers and H.-P. Seidel, 
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Efficient Shape Matching via Graph Cuts, 

[C366] B. Rosenhahn, T. Brox and H.-P. Seidel, 
Scaled motion dynamics for markerless motion capture, 
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Nonlinear Dynamical Shape Priors for Level Set Segmentation, 
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Region-based Pose Tracking, 

[C370] D. Cremers, O. Fluck, M. Rousson and S. Aharon, 
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[C372] C. Nieuwenhuis, D. Kondermann and M. Yan, 
Blood vessel classification into arteries and veins in retinal images, 

[C373] R. Triebel, O. Martinez Mozos and W. Burgard, 
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[C374] R. Kümmerle, P. Pfaff, R. Triebel and W. Burgard, 
Active Monte Carlo Localization in Outdoor Terrains using Multi-Level Surface Maps, 
Fachgespräche Autonome Mobile Systeme (AMS), 2007.
R. Triebel and W. Burgard, 

R. Kümmerle, R. Triebel, P. Pfaff, and W. Burgard, 

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S. Behnke, J. Stueckler, M. Schreiber, H. Schulz, M. Böhnert and K. Meier, 
*Hierarchical reactive control for a team of humanoid soccer robots*, Proc. of the IEEE-RAS Int. Conf. on Humanoid Robots (Humanoids), 622-629, November 2007.

J. Gall, B. Rosenhahn, T. Brox, U. Kersting and H.-P. Seidel, 

F. R. Schmidt, M. Clausen and D. Cremers, 

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[C387] T. Brox, A. Bruhn and J. Weickert,
Variational motion segmentation with level sets,

[C388] T. Brox, B. Rosenhahn, D. Cremers and H.-P. Seidel,
High accuracy optical flow serves 3-D pose tracking: exploiting contour and flow based constraints,

[C389] T. Brox, Y.-J. Kim, J. Weickert and W. Feiden,
Fully-automated analysis of muscle fiber images with combined region and edge based active contours,

[C390] D. Cremers and L. Grady,
Statistical priors for combinatorial optimization: efficient solutions via Graph Cuts,

[C391] D. Cremers, C. Guetter and C. Xu,
Nonparametric priors on the space of joint intensity distributions for non-rigid multi-modal image registration,

[C392] O. Fluck, S. Aharon, D. Cremers and M. Rousson,
GPU histogram computation,

[C393] T. Kohlberger, D. Cremers, M. Rousson and R. Ramaraj,
4D shape priors for level set segmentation of the left myocardium in SPECT sequences,
Vol. 4190, 92-100, October 2006.

[C394] C. Nieuwenhuis and M. Yan,
Knowledge Based Image Enhancement Using Neural Networks,

[C395] D. A. van Soest, M. de Greef, J. Sturm and A. Visser,
Autonomous Color Learning in an Artificial Environment,

[C396] J. Sturm, P. van Rossum and A. Visser,
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[C397] A. Visser, J. Sturm and F.C.A. Groen,
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[C409] M. Welk, D. Theis, T. Brox and J. Weickert,
PDE based deconvolution with forward-backward diffusivities and diffusion tensors,

[C410] B. Goldluecke and M. Magnor,
Spacetime-Continous Geometry Meshes from Multi-View Video Sequences,

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Reconstructing the Geometry of Flowing Water,

[C412] N. Wijngaards, F. Dignum, P. Jonker, T. de Ridder, A. Visser, S. Leijnen and J. Sturm,
Dutch AIBO Team at RoboCup 2005,

[C413] H. Andreasson, R. Triebel and W. Burgard,
Improving Plane Extraction from 3D Data by Fusing Laser Data and Vision,

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