[C1] L. Ma, J. Stueckler, C. Kerl and D. Cremers,  
**Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D Cameras**,  

[C1] V. Golkov, T. Sprenger, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann and D. Cremers,  
**Model-Free Novelty-Based Diffusion MRI**,  
*IEEE International Symposium on Biomedical Imaging (ISBI)*, Prague, Czech Republic, April 2016.

[C2] L. Ma, C. Kerl, J. Stueckler and D. Cremers,  
**CPA-SLAM: Consistent Plane-Model Alignment for Direct RGB-D SLAM**,  
*Int. Conf. on Robotics and Automation*, May 2016.

[C3] J. Diebold, N. Demmel, C. Hazirbas, M. Müller and D. Cremers,  
**Interactive Multi-label Segmentation of RGB-D Images**,  
*Scale Space and Variational Methods in Computer Vision (SSVM)*, 2015.

[C2] C. Hazirbas, J. Diebold and D. Cremers,  
**Optimizing the Relevance-Redundancy Tradeoff for Efficient Semantic Segmentation**,  
*Scale Space and Variational Methods in Computer Vision (SSVM)*, 2015, **Oral Presentation**.

[C3] J. Stühmer and D. Cremers,  
**A Fast Projection Method for Connectivity Constraints in Image Segmentation**,  

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

**q-Space Deep Learning for Twelve-Fold Shorter and Model-Free Diffusion MRI Scans**,  
*Medical Image Computing and Computer Assisted Intervention (MICCAI)*, Munich, Germany, October 2015.

[C6] M. Jaimez, M. Souiai, J. Stueckler, J. Gonzalez-Jimenez and D. Cremers,  
**Motion Cooperation: Smooth Piece-Wise Rigid Scene Flow from RGB-D Images**,  
[C7] M. Souiai, M. R. Oswald, Y. Kee, J. Kim, M. Pollefeys and D. Cremers, 
Entropy Minimization for Convex Relaxation Approaches, 
IEEE International Conference on Computer Vision (ICCV), Santiago, Chile, 2015.

[C8] N. Nagaraja, F. R. Schmidt and T. Brox, 
Video Segmentation with Just a Few Strokes, 
IEEE International Conference on Computer Vision (ICCV), Santiago, Chile, Dec 2015.

[C1] M. Strobel, J. Diebold and D. Cremers, 
Flow and Color Inpainting for Video Completion, 
German Conference on Pattern Recognition (GCPR), Münster, Germany, September 2014, 
Oral Presentation.

[C2] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers, 
Co-Sparse Textural Similarity for Interactive Segmentation, 
European Conference on Computer Vision (ECCV), 2014.

[M1] Caner Hazirbas, 
Feature Selection and Learning for Semantic Segmentation, 
Technical University Munich, Germany, June 2014.

[J1] C. Nieuwenhuis and D. Cremers, 
Spatially Varying Color Distributions for Interactive Multi-Label Segmentation, 

[J2] C. Nieuwenhuis, E. Toeppe and D. Cremers, 
A Survey and Comparison of Discrete and Continuous Multi-label Optimization Approaches for the Potts Model, 

[BC1] M. Klodt, F. Steinbruecker and D. Cremers, 
Moment Constraints in Convex Optimization for Segmentation and Tracking, 

[C1] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers, 
Convex Optimization for Scene Understanding, 
ICCV Workshop on Graphical Models for Scene Understanding, 2013.

[C2] J. Bergbauer, C. Nieuwenhuis, M. Souiai and D. Cremers, 
Proximity Priors for Variational Semantic Segmentation and Recognition, 
ICCV Workshop on Graphical Models for Scene Understanding, 2013.

[C3] E. Toeppe, C. Nieuwenhuis and D. Cremers, 
Volume Constraints for Single View Reconstruction, 
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland, USA, 2013.
[C4] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
*Total Variation Regularization for Functions with Values in a Manifold*,
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

[C5] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
*Proportion Priors for Image Sequence Segmentation*,
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

[C6] J. Stühmer, P. Schröder and D. Cremers,
*Tree Shape Priors with Connectivity Constraints using Convex Relaxation on General Graphs*,
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013, *Oral Presentation*.

[C7] L. Gorelick, F. R. Schmidt and Y. Boykov,
*Fast Trust Region for Segmentation*,

[J1] T. Schoenemann, F. Kahl, S. Masnou and D. Cremers,
*A linear framework for region-based image segmentation and inpainting involving curvature penalization*,

[J2] D. Cremers,
*Optimal Solutions for Semantic Image Decomposition*,

[C1] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
*Nonmetric Priors for Continuous Multilabel Optimization*,

[C2] N. Ufer, M. Souiai and D. Cremers,
*Wehrli 2.0: An Algorithm for Tidying up Art*,

[C3] F. R. Schmidt and Y. Boykov,
*Hausdorff Distance Constraint for Multi-Surface Segmentation*,

[C4] L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward,
*Segmentation with non-linear regional constraints via line-search cuts*,
[BC1] D. Cremers,
Image Segmentation with Shape Priors: Explicit Versus Implicit Representations,

[C1] C. Nieuwenhuis, E. Toepppe and D. Cremers,
Space-Varying Color Distributions for Interactive Multiregion Segmentation: Discrete versus Continuous Approaches,

[C2] M. Klodt and D. Cremers,
A Convex Framework for Image Segmentation with Moment Constraints,
IEEE International Conference on Computer Vision (ICCV), 2011.

[C3] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,
Interactive Segmentation with Super-Labels,

[C1] C. Nieuwenhuis, B. Berkels, M. Rumpf and D. Cremers,
Interactive Motion Segmentation,

[C1] D. Cremers, O. Fluck, M. Rousson and S. Aharon,
A probabilistic level set formulation for interactive organ segmentation,

[C1] T. Brox, A. Bruhn and J. Weickert,
Variational motion segmentation with level sets,

[C2] D. Cremers and L. Grady,
Statistical priors for combinatorial optimization: efficient solutions via Graph Cuts,

[C3] O. Fluck, S. Aharon, D. Cremers and M. Rousson,
GPU histogram computation,
ACM SIGGRAPH posters and demos, 2006.

[C4] T. Kohlberger, D. Cremers, M. Rousson and R. Ramaraj,
4D shape priors for level set segmentation of the left myocardium in SPECT sequences,
[C1] S. Manay, D. Cremers, A. J. Yezzi and S. Soatto,
One-shot integral invariant shape priors for variational segmentation,

[C2] M. Rousson and D. Cremers,
Efficient kernel density estimation of shape and intensity priors for level set segmentation,

[C1] D. Cremers and C. Schnörr,
Statistical shape knowledge in variational motion segmentation,
A. Pece, Y. N. Wu and R. Larsen(Eds.), 1st Internat. Workshop on Generative-Model-Based Vision, Copenhagen, Univ. of Copenhagen, June, 2 2002.