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List of Publications

[C1] E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann and D. Cremers,
**Sublabel-Accurate Convex Relaxation of Vectorial Multilabel Energies,**
*European Conference on Computer Vision (ECCV),* October 2016.

[C2] T. Windheuser and D. Cremers,
**A Convex Solution to Spatially-Regularized Correspondence Problems,**
*European Conference on Computer Vision (ECCV),* October 2016.

[C1] 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.

[J1] B. Goldluecke, M. Aubry, K. Kolev and D. Cremers,
**A Super-resolution Framework for High-Accuracy Multiview Reconstruction,**

[J2] E. Strekalovskiy, A. Chambolle and D. Cremers,
**Convex Relaxation of Vectorial Problems with Coupled Regularization,**

[C1] M. R. Oswald and D. Cremers,
**Surface Normal Integration for Convex Space-time Multi-view Reconstruction,**
*British Machine Vision Conference (BMVC),* 2014.

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

[C3] M. R. Oswald, J. Stühmer and D. Cremers,
**Generalized Connectivity Constraints for Spatio-temporal 3D Reconstruction,**

[C4] E. Strekalovskiy and D. Cremers,
**Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,**

[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,**

[J3] B. Goldluecke, E. Strekalovskiy and D. Cremers,
**Tight Convex Relaxations for Vector-Valued Labeling,**
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[BC1] M. Klodt, F. Steinbruecker and D. Cremers,
Moment Constraints in Convex Optimization for Segmentation and Tracking,

[C1] 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.

[C2] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
A Co-occurrence Prior for Continuous Multi-Label Optimization,

[C3] F. Stangl, M. Souiai and D. Cremers,
Performance Evaluation of Narrow Band Methods for Variational Stereo,
*35th German Conference on Pattern Recognition (GCPR)*, 2013.

[C4] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,
Efficient Convex Optimization for Minimal Partition Problems with Volume Constraints,

[C5] M. Klodt, J. Sturm and D. Cremers,
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*German Conference on Pattern Recognition (GCPR)*, Saarbrücken, Germany, September 2013.

[C6] 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.

[C7] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Proportion Priors for Image Sequence Segmentation,
*IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

[C8] 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.

[C9] 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.
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[R1] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Label Configuration Priors for Continuous Multi-Label Optimization,

[J1] A. Chambolle, D. Cremers and T. Pock,
A Convex Approach to Minimal Partitions,

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

[J3] B. Goldluecke, E. Strekalovskiy and D. Cremers,
The Natural Total Variation Which Arises from Geometric Measure Theory,

[J4] K. Kolev, T. Brox and D. Cremers,
Fast Joint Estimation of Silhouettes and Dense 3D Geometry from Multiple Images,

[J5] D. Cremers and E. Strekalovskiy,
Total Cyclic Variation and Generalizations,

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

[C2] 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, June 2012.

[C3] 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, June 2012.

[C4] N. Ufer, M. Souiai and D. Cremers,
Wehrli 2.0: An Algorithm for Tidying up Art,

[PhD1] K. Kolev,
Convexity in Image-Based 3D Surface Reconstruction,
Department of Computer Science, Technical University Munich, Germany, January 2012.
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[1] D. Cremers and K. Kolev,
Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains,

[2] D. Cremers, T. Pock, K. Kolev and A. Chambolle,
Convex Relaxation Techniques for Segmentation, Stereo and Multiview Reconstruction,

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

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

[5] E. Strekalovskiy, B. Goldluecke and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling Problems,
*IEEE International Conference on Computer Vision (ICCV)*, 2011.

[6] E. Strekalovskiy and D. Cremers,
Generalized Ordering Constraints for Multilabel Optimization,
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[7] C. Nieuwenhuis, E. Toeppe and D. Cremers,
Space-Varying Color Distributions for Interactive Multiregion Segmentation: Discrete versus Continuous Approaches,

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

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

[10] T. Pock, D. Cremers, H. Bischof and A. Chambolle,
Global Solutions of Variational Models with Convex Regularization,
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[C1] 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, November 2010,
*Received Honorable Mention Award.*

[C2] K. Kolev, T. Pock and D. Cremers,
*Anisotropic Minimal Surfaces Integrating Photoconsistency and Normal Information for Multiview Stereo,*
*European Conference on Computer Vision (ECCV),* Heraklion, Greece, September 2010.

[C3] B. Goldluecke and D. Cremers,
*Convex Relaxation for Multilabel Problems with Product Label Spaces,*
*European Conference on Computer Vision (ECCV),* 2010.

[J1] K. Kolev, M. Klodt, T. Brox and D. Cremers,
*Continuous Global Optimization in Multiview 3D Reconstruction,*

[C1] M. R. Oswald, E. Toeppe, K. Kolev and D. Cremers,
*Non-Parametric Single View Reconstruction of Curved Objects using Convex Optimization,*
*Pattern Recognition (Proc. DAGM),* Jena, Germany, 171-180, September 2009,
*Received a DAGM Paper Award.*

[C2] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
*A Convex Relaxation Approach for Computing Minimal Partitions,*

[C3] K. Kolev and D. Cremers,
*Continuous Ratio Optimization via Convex Relaxation with Applications to Multiview 3D Reconstruction,*

[C4] T. Pock, D. Cremers, H. Bischof and A. Chambolle,
*An Algorithm for Minimizing the Piecewise Smooth Mumford-Shah Functional,*

[C1] T. Pock, T. Schoenemann, G. Graber, H. Bischof and D. Cremers,
*A Convex Formulation of Continuous Multi-Label Problems,*

[C2] W. Trobin, T. Pock, D. Cremers and H. Bischof,
*Continuous Energy Minimization via Repeated Binary Fusion,*
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[C3] K. Kolev and D. Cremers,
Integration of Multiview Stereo and Silhouettes via Convex Functionals on Convex Domains,
European Conference on Computer Vision (ECCV), Marseille, France, October 2008.

[C4] 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.

[R1] A. Chambolle, D. Cremers and T. Pock,
A Convex Approach for Computing Minimal Partitions,

[C1] K. Kolev, M. Klodt, T. Brox and D. Cremers,
Propagated Photoconsistency and Convexity in Variational Multiview 3D Reconstruction,

[C2] K. Kolev, M. Klodt, T. Brox, S. Esedoglu and D. Cremers,
Continuous Global Optimization in Multiview 3D Reconstruction,

[J1] J. Keuchel, C. Schnörr, C. Schellewald and D. Cremers,
Binary partitioning, perceptual grouping, and restoration with semidefinite programming,

[C1] J. Keuchel, C. Schnoerr, C. Schellewald and D. Cremers,
Unsupervised Image Partitioning with Semidefinite Programming,

[C1] J. Keuchel, C. Schellewald, D. Cremers and C. Schnoerr,
Convex Relaxations for Binary Image Partitioning and Perceptual Grouping,
Radig, B., Florczyk and S.(Eds.), Pattern Recognition, Munich, Germany, Springer, LNCS, Vol. 2191, 353-360, Sept. 2001, Received a DAGM Paper Award.