Journal Articles

[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,

[J3] C. Nieuwenhuis and D. Cremers,
Spatially Varying Color Distributions for Interactive Multi-Label Segmentation,

[J4] C. Nieuwenhuis, E. Toeppe and D. Cremers,
A Survey and Comparison of Discrete and Continuous Multi-label Optimization Approaches for the Potts Model,

[J5] B. Goldluecke, E. Strekalovskiy and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling,

[J6] A. Chambolle, D. Cremers and T. Pock,
A Convex Approach to Minimal Partitions,

[J7] D. Cremers,
Optimal Solutions for Semantic Image Decomposition,

[J8] B. Goldluecke, E. Strekalovskiy and D. Cremers,
The Natural Total Variation Which Arises from Geometric Measure Theory,

[J9] K. Kolev, T. Brox and D. Cremers,
Fast Joint Estimation of Silhouettes and Dense 3D Geometry from Multiple Images,

[J10] D. Cremers and E. Strekalovskiy,
Total Cyclic Variation and Generalizations,

[J11] D. Cremers and K. Kolev,
Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains,

[J12] T. Pock, D. Cremers, H. Bischof and A. Chambolle,
Global Solutions of Variational Models with Convex Regularization,
Keywords: Convex-relaxation

List of Publications

[J13] K. Kolev, M. Klodt, T. Brox and D. Cremers,
Continuous Global Optimization in Multiview 3D Reconstruction,

[J14] J. Keuchel, C. Schnörr, C. Schellewald and D. Cremers,
Binary partitioning, perceptual grouping, and restoration with semidefinite programming,

Book Chapters

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

[BC2] D. Cremers, T. Pock, K. Kolev and A. Chambolle,
Convex Relaxation Techniques for Segmentation, Stereo and Multiview Reconstruction,

Conference and Workshop Papers

[C1] T. Möllenhoff and D. Cremers,
Sublabel-Accurate Discretization of Nonconvex Free-Discontinuity Problems,
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[C2] T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers,
Sublabel-Accurate Relaxation of Nonconvex Energies,
2016.

[C3] E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann and D. Cremers,
Sublabel-Accurate Convex Relaxation of Vectorial Multilabel Energies,
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[C4] N. Nagaraja, F. R. Schmidt and T. Brox,
Video Segmentation with Just a Few Strokes,
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[C5] M. R. Oswald and D. Cremers,
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[C6] C. Nieuwenhuis, S. Hawe, M. Kleinsteuber and D. Cremers,
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[C7] M. R. Oswald, J. Stühmer and D. Cremers,
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[C8] E. Strekalovskiy and D. Cremers,
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Keywords: Convex-relaxation

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[C9] E. Toeppe, C. Nieuwenhuis and D. Cremers,
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[C10] M. Souiai, E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
A Co-occurrence Prior for Continuous Multi-Label Optimization,
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[C11] F. Stangl, M. Souiai and D. Cremers,
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[C12] T. Möllenhoff, C. Nieuwenhuis, E. Toeppe and D. Cremers,
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[C14] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
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Sydney, Australia, December 2013.

[C15] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
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Sydney, Australia, December 2013.

[C16] J. Stühmer, P. Schröder and D. Cremers,
Tree Shape Priors with Connectivity Constraints using Convex Relaxation on
General Graphs,
Sydney, Australia, December 2013, Oral Presentation.

[C17] M. R. Oswald and D. Cremers,
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Nonmetric Priors for Continuous Multilabel Optimization,
Firenze, Italy, Springer, October 2012.

[C19] M. R. Oswald, E. Toeppe and D. Cremers,
Fast and Globally Optimal Single View Reconstruction of Curved Objects,
Providence, Rhode Island, 534-541, June 2012.

[C20] E. Strekalovskiy, A. Chambolle and D. Cremers,
A Convex Representation for the Vectorial Mumford-Shah Functional,
Providence, Rhode Island, June 2012.

[C21] N. Ufer, M. Souiai and D. Cremers,
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Keywords: Convex-relaxation

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[C22] E. Strekalovskiy and D. Cremers,  
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[C23] B. Goldluecke and D. Cremers,  
**Introducing Total Curvature for Image Processing**,  
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[C24] E. Strekalovskiy, B. Goldluecke and D. Cremers,  
**Tight Convex Relaxations for Vector-Valued Labeling Problems**,  
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[C25] E. Strekalovskiy and D. Cremers,  
**Generalized Ordering Constraints for Multilabel Optimization**,  
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[C26] C. Nieuwenhuis, E. Toeppe and D. Cremers,  
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[C27] M. Klodt and D. Cremers,  
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[C28] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,  
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[C32] T. Pock, A. Chambolle, H. Bischof and D. Cremers,  
**A Convex Relaxation Approach for Computing Minimal Partitions**,  

[C33] T. Pock, D. Cremers, H. Bischof and A. Chambolle,  
**An Algorithm for Minimizing the Piecewise Smooth Mumford-Shah Functional**,  
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[C34] T. Pock, T. Schoenemann, G. Graber, H. Bischof and D. Cremers,  
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[C37] K. Kolev, M. Klodt, T. Brox and D. Cremers,  
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Unsupervised Image Partitioning with Semidefinite Programming,  

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Convex Relaxations for Binary Image Partitioning and Perceptual Grouping,  
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[PhD1] K. Kolev,  
Convexity in Image-Based 3D Surface Reconstruction,  
Department of Computer Science, Technical University Munich, Germany, January 2012.

Technical Reports

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

[R2] A. Chambolle, D. Cremers and T. Pock,  
A Convex Approach for Computing Minimal Partitions,  