Keywords: Convex-relaxation

List of Publications

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,
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[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,
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[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,
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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,
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[C3] E. Laude, T. Möllenhoff, M. Moeller, J. Lellmann 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,
Real-Time Minimization of the Piecewise Smooth Mumford-Shah Functional,
Keywords: Convex-relaxation

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[C9] E. Toeppe, C. Nieuwenhuis and D. Cremers,  
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**A Convex Relaxation Approach to Space Time Multi-view 3D Reconstruction**,  
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**Nonmetric Priors for Continuous Multilabel Optimization**,  

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Total Variation for Cyclic Structures: Convex Relaxation and Efficient Minimization,

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Introducing Total Curvature for Image Processing,
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A Convex Framework for Image Segmentation with Moment Constraints,
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[C29] E. Toeppe, M. R. Oswald, D. Cremers and C. Rother,
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Convex Relaxation for Multilabel Problems with Product Label Spaces,
Keywords: Convex-relaxation

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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.

[C32] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
A Convex Relaxation Approach for Computing Minimal Partitions,

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Continuous Global Optimization in Multiview 3D Reconstruction,

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Unsupervised Image Partitioning with Semidefinite Programming,

[C40] J. Keuchel, C. Schellewald, D. Cremers and C. Schnoerr,
Convex Relaxations for Binary Image Partitioning and Perceptual Grouping,
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PhDThesis
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Convexity in Image-Based 3D Surface Reconstruction,
Department of Computer Science, Technical University Munich, Germany, January 2012.

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[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,