Journal Articles

[J1] V. Golkov, A. Dosovitskiy, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann, T. Brox and D. Cremers,
q-Space Deep Learning: Twelve-Fold Shorter and Model-Free Diffusion MRI Scans,
35: 2016, Special Issue on Deep Learning.

[J2] C. Nieuwenhuis and D. Cremers,
Spatially Varying Color Distributions for Interactive Multi-Label Segmentation,

[J3] C. Nieuwenhuis, E. Toeppe and D. Cremers,
A Survey and Comparison of Discrete and Continuous Multi-label Optimization Approaches for the Potts Model,

[J4] T. Schoenemann, F. Kahl, S. Masnou and D. Cremers,
A linear framework for region-based image segmentation and inpainting involving curvature penalization,

[J5] D. Cremers,
Optimal Solutions for Semantic Image Decomposition,

Book Chapters

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

[BC2] D. Cremers,
Image Segmentation with Shape Priors: Explicit Versus Implicit Representations,

Conference and Workshop Papers

[C1] L. Ma, J. Stueckler, C. Kerl and D. Cremers,
Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D Cameras,
Vancouver, Canada, Sep 2017.

[C2] V. Golyanik, K. Kim, R. Maier, M. Niessner, D. Stricker and J. Kautz,
Multiframe Scene Flow with Piecewise Rigid Motion,
International Conference on 3D Vision (3DV), Qingdao, China, October 2017, Spotlight Presentation.
Keywords: Segmentation

List of Publications


Keywords: Segmentation

List of Publications

[C15] M. Souiai, C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Convex Optimization for Scene Understanding,
*ICCV Workshop on Graphical Models for Scene Understanding*, 2013.

[C16] 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.

[C17] E. Toeppe, C. Nieuwenhuis and D. Cremers,
Volume Constraints for Single View Reconstruction,
Portland, USA, 2013.

[C18] J. Lellmann, E. Strekalovskiy, S. Koetter and D. Cremers,
Total Variation Regularization for Functions with Values in a Manifold,
Sydney, Australia, December 2013.

[C19] C. Nieuwenhuis, E. Strekalovskiy and D. Cremers,
Proportion Priors for Image Sequence Segmentation,
Sydney, Australia, December 2013.

[C20] J. Stiähmer, P. Schröder and D. Cremers,
Tree Shape Priors with Connectivity Constraints using Convex Relaxation on
General Graphs,
Sydney, Australia, December 2013, Oral Presentation.

[C21] L. Gorelick, F. R. Schmidt and Y. Boykov,
Fast Trust Region for Segmentation,
Portland, Oregon, Jun 2013.

[C22] E. Strekalovskiy, C. Nieuwenhuis and D. Cremers,
Nonmetric Priors for Continuous Multilabel Optimization,
Firenze, Italy, October 2012.

[C23] N. Ufer, M. Souiai and D. Cremers,
Wehrli 2.0: An Algorithm for Tidying up Art,

[C24] F. R. Schmidt and Y. Boykov,
Hausdorff Distance Constraint for Multi-Surface Segmentation,

[C25] L. Gorelick, F. R. Schmidt, Y. Boykov, A. Delong and A. Ward,
Segmentation with non-linear regional constraints via line-search cuts,

[C26] C. Nieuwenhuis, E. Toeppe and D. Cremers,
Space-Varying Color Distributions for Interactive Multiregion Segmentation:
Discrete versus Continuous Approaches,
177-190, 2011.

[C27] M. Klodt and D. Cremers,
A Convex Framework for Image Segmentation with Moment Constraints,
2011.
Keywords: Segmentation

List of Publications

[C28] A. Delong, L. Gorelick, F. R. Schmidt, O. Veksler and Y. Boykov,
**Interactive Segmentation with Super-Labels,**

[C29] C. Nieuwenhuis, B. Berkels and M. Rumpf,
**Interactive Motion Segmentation,**

[C30] D. Cremers, O. Fluck, M. Rousson and S. Aharon,
**A probabilistic level set formulation for interactive organ segmentation,**

[C31] T. Brox, A. Bruhn and J. Weickert,
**Variational motion segmentation with level sets,**

[C32] D. Cremers and L. Grady,
**Statistical priors for combinatorial optimization: efficient solutions via Graph Cuts,**

[C33] O. Fluck, S. Aharon, D. Cremers and M. Rousson,
**GPU histogram computation,**
2006.

[C34] 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.

[C35] S. Manay, D. Cremers, A. J. Yezzi and S. Soatto,
**One-shot integral invariant shape priors for variational segmentation,**

[C36] M. Rousson and D. Cremers,
**Efficient kernel density estimation of shape and intensity priors for level set segmentation,**

[C37] 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.

MastersThesis

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