Keywords: Shape-priors  

List of Publications

**Journal Articles**

[J1] T. Brox, B. Rosenhahn, J. Gall and D. Cremers,  
Combined region- and motion-based 3D tracking of rigid and articulated objects,  

[J2] D. Cremers,  
Nonlinear Dynamical Shape Priors for Level Set Segmentation,  

[J3] D. Cremers, M. Rousson and R. Deriche,  
A review of statistical approaches to level set segmentation: integrating color, texture, motion and shape,  

[J4] D. Cremers,  
Dynamical statistical shape priors for level set based tracking,  

[J5] D. Cremers, T. Kohlberger and C. Schnörr,  
Shape Statistics in Kernel Space for Variational Image Segmentation,  

[J6] D. Cremers, F. Tischhaüser, J. Weickert and C. Schnörr,  
Diffusion Snakes: Introducing statistical shape knowledge into the Mumford–Shah functional,  

**Book Chapters**

[BC1] D. Cremers and M. Rousson,  
Efficient kernel density estimation of shape and intensity priors for level set segmentation,  

**Conference and Workshop Papers**

[C1] J. Stühmer and D. Cremers,  
A Fast Projection Method for Connectivity Constraints in Image Segmentation,  

[C2] 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.
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[C3] F. R. Schmidt and D. Cremers,
A Closed-Form Solution for Image Sequence Segmentation with Dynamical Shape Priors,
*Pattern Recognition (Proc. DAGM)*, Jena, Germany, September 2009.

[C4] D. Cremers, F. R. Schmidt and F. Barthel,
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[C5] T. Schoenemann and D. Cremers,
Globally Optimal Image Segmentation with an Elastic Shape Prior,

[C6] D. Cremers,
Nonlinear Dynamical Shape Priors for Level Set Segmentation,

[C7] T. Brox, A. Bruhn, N. Papenberg and J. Weickert,
High accuracy optical flow estimation based on a theory for warping,
T. Pajdla and J. Matas(Eds.), *European Conference on Computer Vision (EC-CV)*, Prague, Czech Republic, Springer, LNCS, Vol. 3024, 25-36, may 2004, Received 'The Longuet-Higgins Best Paper Award'.

[C8] D. Cremers, S. J. Osher and S. Soatto,
Kernel density estimation and intrinsic alignment for knowledge-driven segmentation,

[C9] D. Cremers, N. Sochen and C. Schnörr,
Multiphase dynamic labeling for variational recognition-driven image segmentation,

[C10] D. Cremers and S. Soatto,
A pseudo-distance for shape priors in level set segmentation,

[C11] D. Cremers, N. Sochen and C. Schnörr,
Towards Recognition-based Variational Segmentation Using Shape Priors and Dynamic Labeling,

[C12] D. Cremers, T. Kohlberger and C. Schnörr,
Nonlinear shape statistics in Mumford–Shah based segmentation,
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[C13] D. Cremers, C. Schnörr, J. Weickert and C. Schellewald, 
Learning of translation invariant shape knowledge for steering diffusion snakes, 

[C14] D. Cremers, C. Schnörr, J. Weickert and C. Schellewald, 
Diffusion Snakes using statistical shape knowledge, 