Shape Priors

List of Publications

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

[C1] 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.

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

[C1] 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.

[J1] D. Cremers,
Nonlinear Dynamical Shape Priors for Level Set Segmentation,

[J1] D. Cremers, M. Rousson and R. Deriche,
A review of statistical approaches to level set segmentation: integrating color, texture, motion and shape,

[BC1] D. Cremers and M. Rousson,
Efficient kernel density estimation of shape and intensity priors for level set segmentation,
[C1] T. Schoenemann and D. Cremers,  
Globally Optimal Image Segmentation with an Elastic Shape Prior,  

[C2] D. Cremers,  
Nonlinear Dynamical Shape Priors for Level Set Segmentation,  

[J1] D. Cremers,  
Dynamical statistical shape priors for level set based tracking,  

[C1] T. Brox, A. Bruhn, N. Papenberg and J. Weickert,  
High accuracy optical flow estimation based on a theory for warping,  

[C2] D. Cremers, S. J. Osher and S. Soatto,  
Kernel density estimation and intrinsic alignment for knowledge-driven segmentation: Teaching level sets to walk,  

[C3] D. Cremers, N. Sochen and C. Schnörr,  
Multiphase dynamic labeling for variational recognition-driven image segmentation,  

[J1] D. Cremers, T. Kohlberger and C. Schnörr,  
Shape Statistics in Kernel Space for Variational Image Segmentation,  

[C1] D. Cremers and S. Soatto,  
A pseudo-distance for shape priors in level set segmentation,  

[C2] D. Cremers, N. Sochen and C. Schnörr,  
Towards Recognition-based Variational Segmentation Using Shape Priors and Dynamic Labeling,  
[J1] D. Cremers, F. Tischhäuser, J. Weickert and C. Schnörr,
**Diffusion Snakes: Introducing statistical shape knowledge into the Mumford–Shah functional,**

[C1] D. Cremers, T. Kohlberger and C. Schnörr,
**Nonlinear shape statistics in Mumford–Shah based segmentation,**

[C1] D. Cremers, C. Schnörr, J. Weickert and C. Schellewald,
**Learning of translation invariant shape knowledge for steering diffusion snakes,**

[C2] D. Cremers, C. Schnörr, J. Weickert and C. Schellewald,
**Diffusion Snakes using statistical shape knowledge,**