Shape Priors

List of Publications

[C1] J. Stühmer and D. Cremers,
A Fast Projection Method for Connectivity Constraints in Image Segmenta-
ton, X.-C. Tai, E. Bae, T. F. Chan and M. Lysaker(Eds.), Energy Minimization Methods in
Computer Vision and Pattern Recognition (EMMCVPR), LNCS, 2015.

[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 ob-

[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, J. S. Suri and A. Farag(Eds.), Parametric and Geometric Deformable Models: An appli-
[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, 
Received 'The Longuet-Higgins Best Paper Award'.

[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,