Shape Priors

List of Publications

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

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

[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-
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<tr>
<th>Year</th>
<th>Authors</th>
<th>Title</th>
<th>Conference/Proceedings</th>
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<tr>
<td>2007</td>
<td>D. Cremers</td>
<td>Nonlinear Dynamical Shape Priors for Level Set Segmentation</td>
<td>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</td>
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<td>2006</td>
<td>D. Cremers</td>
<td>Dynamical statistical shape priors for level set based tracking</td>
<td>IEEE Transactions on Pattern Analysis and Machine Intelligence</td>
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<td>2004</td>
<td>T. Brox, A. Bruhn, N. Papenberg and J. Weickert</td>
<td>High accuracy optical flow estimation based on a theory for warping</td>
<td>European Conference on Computer Vision (ECCV)</td>
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<td>2004</td>
<td>D. Cremers, S. J. Osher and S. Soatto</td>
<td>Kernel density estimation and intrinsic alignment for knowledge-driven segmentation: Teaching level sets to walk</td>
<td>Pattern Recognition (Proc. DAGM)</td>
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<td>2004</td>
<td>D. Cremers, N. Sochen and C. Schnörr</td>
<td>Multiphase dynamic labeling for variational recognition-driven image segmentation</td>
<td>European Conference on Computer Vision (ECCV)</td>
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<td>2003</td>
<td>D. Cremers, T. Kohlberger and C. Schnörr</td>
<td>Shape Statistics in Kernel Space for Variational Image Segmentation</td>
<td>Pattern Recognition</td>
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<td>2003</td>
<td>D. Cremers and S. Soatto</td>
<td>A pseudo-distance for shape priors in level set segmentation</td>
<td>IEEE 2nd Int. Workshop on Variational, Geometric and Level Set Methods</td>
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<td>2003</td>
<td>D. Cremers, N. Sochen and C. Schnörr</td>
<td>Towards Recognition-based Variational Segmentation Using Shape Priors and Dynamic Labeling</td>
<td>Scale-Space Methods in Computer Vision</td>
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[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,