2018
Journal Articles
[J1] N Mayer, E Ilg, P Fischer, C Hazirbas, D Cremers, A Dosovitskiy and T Brox,
What Makes Good Synthetic Training Data for Learning Disparity and Optical Flow Estimation?,

2015
Conference and Workshop Papers
[C1] A. Dosovitskiy, P. Fischer, E. Ilg, P. Haeusser, C. Hazirbas, V. Golkov, P. van der Smagt, D. Cremers and T. Brox,
FlowNet: Learning Optical Flow with Convolutional Networks,
IEEE International Conference on Computer Vision (ICCV), Dec 2015.

2014
Journal Articles
[J1] E. Strekalovskiy, A. Chambolle and D. Cremers,
Convex Relaxation of Vectorial Problems with Coupled Regularization,

2012
Journal Articles
[J1] B. Goldluecke, E. Strekalovskiy and D. Cremers,
The Natural Total Variation Which Arises from Geometric Measure Theory,

2011
Journal Articles
[J1] A. Wedel, T. Brox, T. Vaudrey, C. Rabe, U. Franke and D. Cremers,
Stereoscopic Scene Flow Computation for 3D Motion Understanding,

[J2] A. Sellent, M. Eisemann, B. Goldluecke, D. Cremers and M. Magnor,
Motion Field Estimation from Alternate Exposure Images,

[J3] J. Kybic and C. Nieuwenhuis,
Bootstrap Optical Flow and Uncertainty Measure,

Conference and Workshop Papers
[C1] E. Strekalovskiy, B. Goldluecke and D. Cremers,
Tight Convex Relaxations for Vector-Valued Labeling Problems,
IEEE International Conference on Computer Vision (ICCV), 2011.

[C2] M. Schikora, W. Koch and D. Cremers,
Multi-object tracking via high accuracy optical flow and finite set statistics,
International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prag, Czech Republic, Mai 2011.
Keywords: Optical-flow  List of Publications

2010
Conference and Workshop Papers


2009
Conference and Workshop Papers


PhDThesis


2008
Conference and Workshop Papers

Keywords: Optical-flow

List of Publications

[C2] A. Wedel, T. Pock, J. Braun, U. Franke and D. Cremers,
Duality TV-L1 Flow with Fundamental Matrix Prior,

[C3] A. Wedel, T. Pock, C. Zach, D. Cremers and H. Bischof,
An Improved Algorithm for TV-L1 Optical Flow,

2006

Journal Articles

[J1] N. Papenberg, A. Bruhn, T. Brox, S. Didas and J. Weickert,
Highly accurate optic flow computation with theoretically justified warping,

Book Chapters

Adaptive structure tensors and their applications,

[BC2] J. Weickert, A. Bruhn, T. Brox and N. Papenberg,
A survey on variational optic flow methods for small displacements,

Conference and Workshop Papers

[C1] T. Brox, A. Bruhn and J. Weickert,
Variational motion segmentation with level sets,

2005

Journal Articles

[J1] D. Cremers and S. Soatto,
Motion Competition: A variational framework for piecewise parametric motion segmentation,

2004

Conference and Workshop Papers

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

List of Publications

2003

Journal Articles

[J1] D. Cremers and C. Schnörr,
Statistical shape knowledge in variational motion segmentation,

Conference and Workshop Papers

[C1] D. Cremers and S. Soatto,
Variational space-time motion segmentation,

[C2] D. Cremers and A. L. Yuille,
A generative model based approach to motion segmentation,

2002

Conference and Workshop Papers

[C1] T. Brox and J. Weickert,
Nonlinear matrix diffusion for optic flow estimation,

[C2] 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.