Optical Flow Estimation

List of Publications

[C1] P. Fischer, A. Dosovitskiy, E. Ilg, P. Husser, C. Hazrba, 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)*, December 2015.

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

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

[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,**

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

[C1] C. Nieuwenhuis, D. Kondermann and C. Garbe,
**Complex Motion Models for Simple Optical Flow Estimation,**

[C2] C. Nieuwenhuis, B. Berkels, M. Rumpf and D. Cremers,
**Interactive Motion Segmentation,**

[C1] A. Sellent, M. Eisemann, B. Goldluecke, T. Pock, D. Cremers and M. Magnor,
**Variational Optical Flow from Alternate Exposure Images,**

[C2] A. Wedel, D. Cremers, T. Pock and H. Bischof,
**Structure- and Motion-adaptive Regularization for High Accuracy Optic Flow,**
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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, 
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List of Publications

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

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

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

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

[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,

[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.