Full Flow: Optical Flow Estimation By Global Optimization over Regular Grids Q. Chen, V. Koltun (CVPR 2016)



- Discrete optimization over the full space of mappings for optical flow
- Using a classical formulation with a normalized cross-correlation data term
- Effective optimization over large label space with TRW-S
- Min-convolution reduces the complexity of message passing from squared to linear
- Reducing the space of mappings using a smaller resolution and max displacements
- Epic Flow interpolation to fill inconsistent pixel and post processing for subpixel precision
- State-of-the-art results on Sintel and KITTI 2015