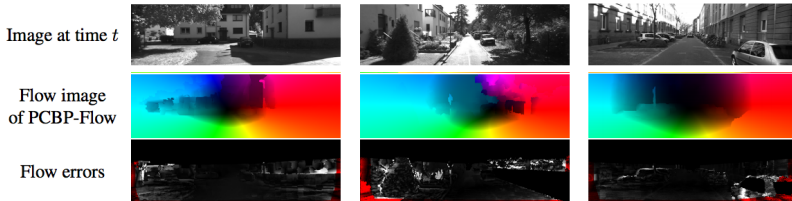


Robust Monocular Epipolar Flow Estimation

K. Yamaguchi, D. McAllester, R. Urtasun (CVPR 2013)



- ▶ Limitations of existing algorithms:
 - ▶ Gradient-based methods suffer in the presence of large displacements
 - ▶ Matching-based methods are computationally demanding due to the large amount of candidates required
- ▶ Contributions:
 - ▶ Adapts slanted plane stereo models to the problem of monocular epipolar flow estimation
 - ▶ Efficient flow-aware segmentation algorithm that encourages the segmentation to respect both image and flow discontinuities
 - ▶ Robust data term using a new local flow matching algorithm
- ▶ Evaluates on KITTI flow benchmark