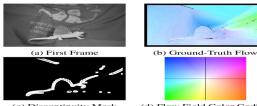
A Database and Evaluation Methodology for Optical Flow S. Baker, D. Scharstein, J.P. Lewis, S. Roth, M. J. Black, R. Szeliski (IJCV 2011)



(c) Discontinuity Mask



(d) Flow Field Color Coding

- Presents a collection of datasets for the evaluation of optical flow algorithms
- Contributes four types of data to test different aspects of optical flow algorithms:
  - Sequences with nonrigid motion where the ground-truth flow is determined by tracking hidden fluorescent texture
  - Realistic synthetic sequences addresses the limitations of previous dataset sequences by rendering more complex scenes with significant motion discontinuities and textureless regions
  - High frame-rate video used to study interpolation error
  - Modified stereo sequences of static scenes for optical flow
- Evaluates a number of well-known flow algorithms to characterize the current state of the art
- Extendes the set of evaluation measures and improved the evaluation methodology