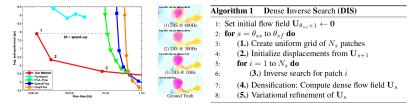
Fast Optical Flow using Dense Inverse Search T. Kroeger, R. Timofte, D. Dai, L. V. Gool (Arxiv 2016)



- Very low time complexity for dense optical flow
- Inverse search for a uniform grid of patch correspondences
 - Inverse Lukas-Kanade algorithm proposed before
- ▶ Dense displacement field creation through patch aggregation along multiple scales
 - Coarse-to-fine scheme
 - Densification as weighted averaging to displacement estimates
- Variational refinement
- ▶ 300Hz up to 600Hz on a single CPU core (human-level temporal resolution)
- Evaluated on Sintel and KITTI benchmarks