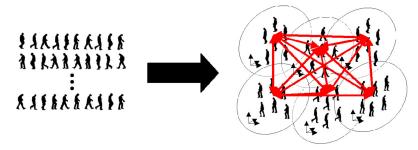
A Bayesian Framework for Multi-cue 3D Object Tracking J. Giebel, D. M. Gavrila, and C. Schnörr (ECCV 2004)



- Multi-cue 3D deformable object tracking from a moving vehicle
- Spatio-temporal shape representation by a set of distinct linear subspace models Dynamic Point Distribution Models (DPDMs)
 - Continuous and discontinuous appearance changes
 - Learned fully automatically from training data
- Texture information by means of intensity histograms
- Direct 3D measurement by a stereo system
- State propagation by a particle filter combining shape, texture and depth in its observation density function
- Measurements from an independent object detection by means of importance sampling
- Evaluated in urban, rural, and synthetic environments