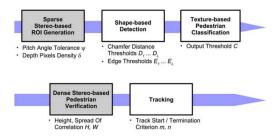
## Multi-cue Pedestrian Detection and Tracking from a Moving Vehicle D. M. Gavrila and S. Munder (IJCV 2007)



- Mutli-cue system for real-time detection and tracking of pedestrians from a moving vehicle
- Cascade of modules utilizing complementary visual criteria to narrow down the search space
- Integration of sparse stereo-based ROI generation, shape-based detection, texture-based classification and dense stereo-based verification
- Mixture-of-experts involving texture-based component classifiers weighted by the outcome of shape matching
- $\alpha \beta$  tracker using the Hungarian method for data association
- Analysis of the performance and interaction of the individual modules
- Evaluation in difficult urban traffic conditions