

# Global Data Association for Multi-Object Tracking Using Network Flows

L. Zhang, Y. Li, R. Nevatia (CVPR 2008)



- ▶ Existing methods severely limit the search window and perform pruning of hypotheses
- ▶ Contributions:
  - ▶ Presents a novel data association framework for multiple object tracking that optimizes the association globally using all the observations from the entire sequence
  - ▶ False alarms, initialization and termination of the trajectory & inference of occlusions is modeled intrinsically in the method
  - ▶ An optimal solution is provided based on the min-cost network flow algorithms
- ▶ Evaluates on the CAVIAR videos and the ETH Mobile Scene (ETHMS) datasets