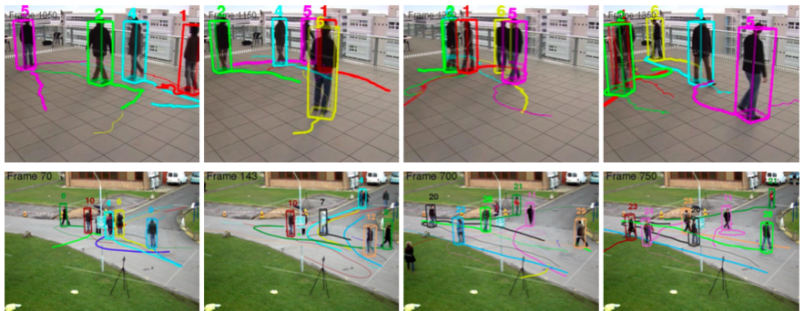


# Multi-target Tracking by Continuous Energy Minimization

A. Andriyenko and Konrad Schindler (CVPR 2011)



- ▶ Existing methods limit the state space, either by per-frame non-maxima suppression or by discretizing locations to a coarse grid
- ▶ Contributions:
  - ▶ Target locations are not bound to discrete object detections or grid positions, therefore defined in case of detector failure, and that there is no grid aliasing
  - ▶ Proposes that convexity is not the primary requirement for a good cost function in the case of tracking.
  - ▶ New minimization procedure is capable of exploring a much larger portion of the search space than standard gradient methods
- ▶ Evaluates on sequences from terrace1, terrace2, VS-PETS2009, TUD-Stadtmitte datasets