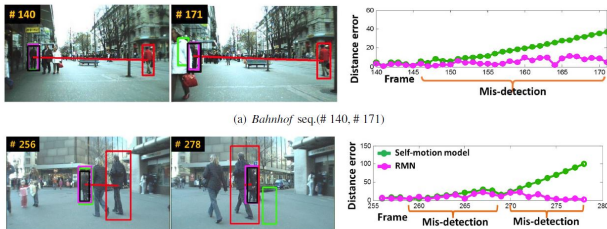


Bayesian Multi-Object Tracking Using Motion Context from Multiple Objects

J. H. Yoon, MH. Yang, J. Lim and KJ. Yoon (WACV 2015)



- ▶ Online multi-object tracking with a single moving camera
- ▶ 2D conventional motion models no longer hold because of global camera motion
- ▶ Consider motion context from multiple objects which describes the relative movement between objects
- ▶ Construct a Relative Motion Network to factor out the effects of unexpected camera motion
- ▶ It consists of multiple relative motion models that describe spatial relations between objects
- ▶ Can be incorporated into various multi-object tracking frameworks and is demonstrated with a tracking framework based on a Bayesian filter
- ▶ Evaluation on the ETHZ dataset