Near-Online Multi-target Tracking with Aggregated Local Flow Descriptor

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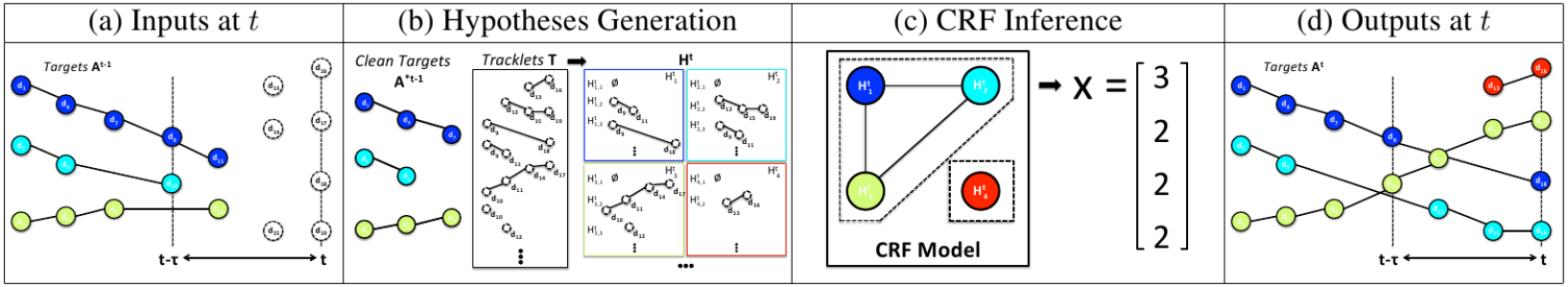

- Near-Online Multi-target Tracking (NOMT) algorithm formulated as global data association between targets and detections in temporal window
- Designing an accurate affinity measure to associate detections and estimate the likelihood of matching
- Aggregated Local Flow Descriptor (ALFD) encodes the relative motion pattern using long term interest point trajectories
- Integration of multiple cues including ALFD metric, target dynamics, appearance similarity and long term trajectory regularization
- Solves the association problem with a parallelized junction tree algorithm
- Best accuracy with significant margins on KITTI and MOT dataset