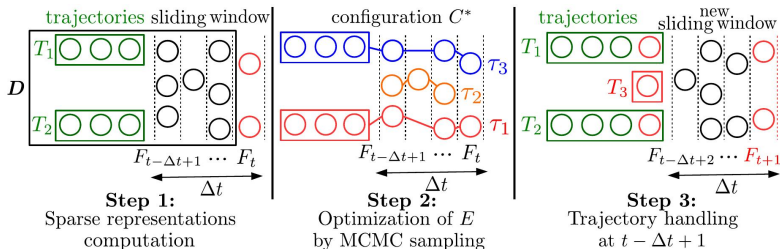


Improving Multi-Frame Data Association with Sparse Representations for Robust Near-Online Multi-Object Tracking

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- ▶ Multiple object tracking still difficult due to appearance variations, occlusions and detection failures
- ▶ Sparse representations-based models successful in single object tracking
- ▶ Combining a sparse representation-based appearance model with a sliding window tracking method
- ▶ Formulate the multi-frame data association step as an energy minimization problem
- ▶ Efficiently exploits sparse representations of all detections
- ▶ Structured sparsity-inducing norm is used to compute representations more suited to the tracking context
- ▶ Evaluation on MOTChallenge benchmarks