

Poster preview

Motivation

- Time sensitive classification task
- Optimal information aggregation mechanism

Approach

- Derive time vs. accuracy tradeoff based on sequential analysis results
- Obtain upper bound to the sampling cost under fixed accuracy
- Reformulate the problem as density ratio estimation minimizing the bound

Results

- Human activity recognition using smartphones
- BTR70 vs T72 from MSTAR public dataset

Extensions

1. Multi-class scenario
2. Multi-view scenario