

Ubiquitous Computing Systems Lab.

1. Object Detection and Tracking from Drive Recorder Video Data

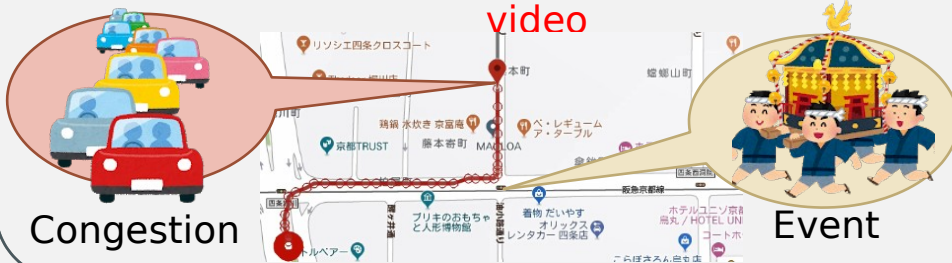
Smart city

Want to know contexts (congestion, events, etc) in the whole city (e.g., for car navigation and spot recommendation)



Drive recorder video data is collected for 1 month from 7 taxis.

Goal: extract contexts (congestion, event, etc) in city from drive recorder video



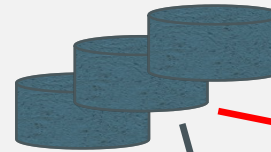
2. Detecting Anomaly from Smart Home Data

Smart home

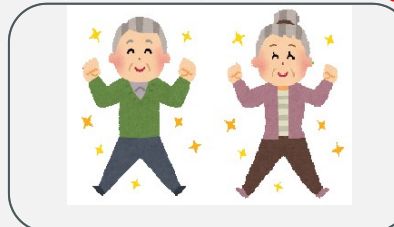
Want to know/track residents' health statuses (e.g., for elderly monitoring)



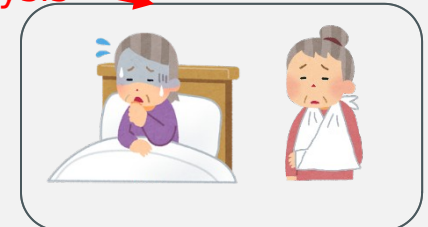
Sensor data (motion, ambient sensors with activity labels) collected for 2 months from 10 elderly homes



Goal: detect abnormal situations through data analysis



Normal situations



Abnormal situations