Extracting Human Behavior Patterns from Appliance-level Power Consumption Data

**Goal**
Extracting meaningful contextual data from raw sensor datasets collected in the context of smart home

**Challenges**
- Heterogeneous sensor nodes
- Analysis of noisy and huge collected datasets
- Obtaining the ground truth

**Approach**
- Activity recognition with the means of machine learning algorithms
- Time series analysis of daily power consumption
- Detection of temporal behavior patterns in the everyday life of the users in smart home