

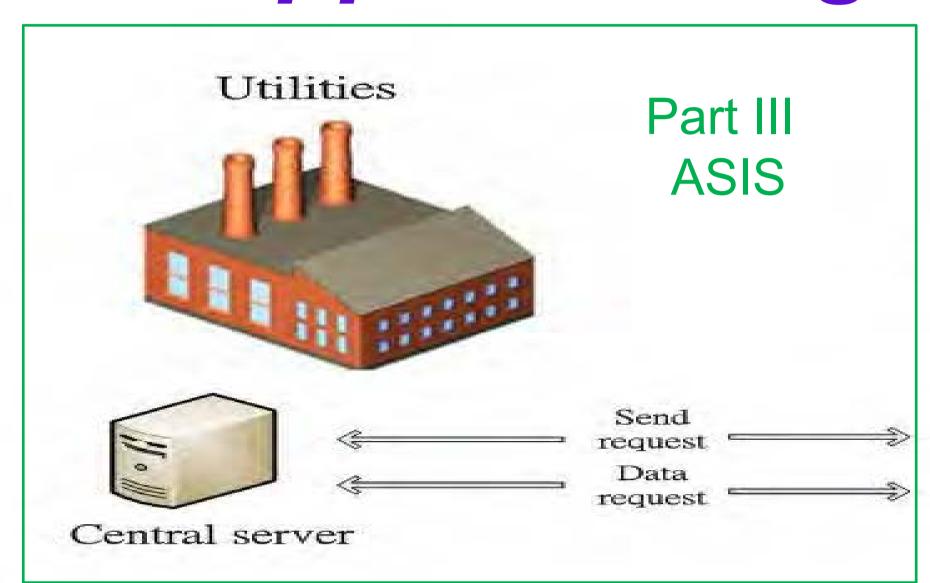
# **Appliance Signature and Energy Auditing for Sustainability**

Student: CHUI Kwok Tai Programme: [BEngECE(BIM)]

Supervisor: Dr. Kim Fung TSANG

## Objective/Background

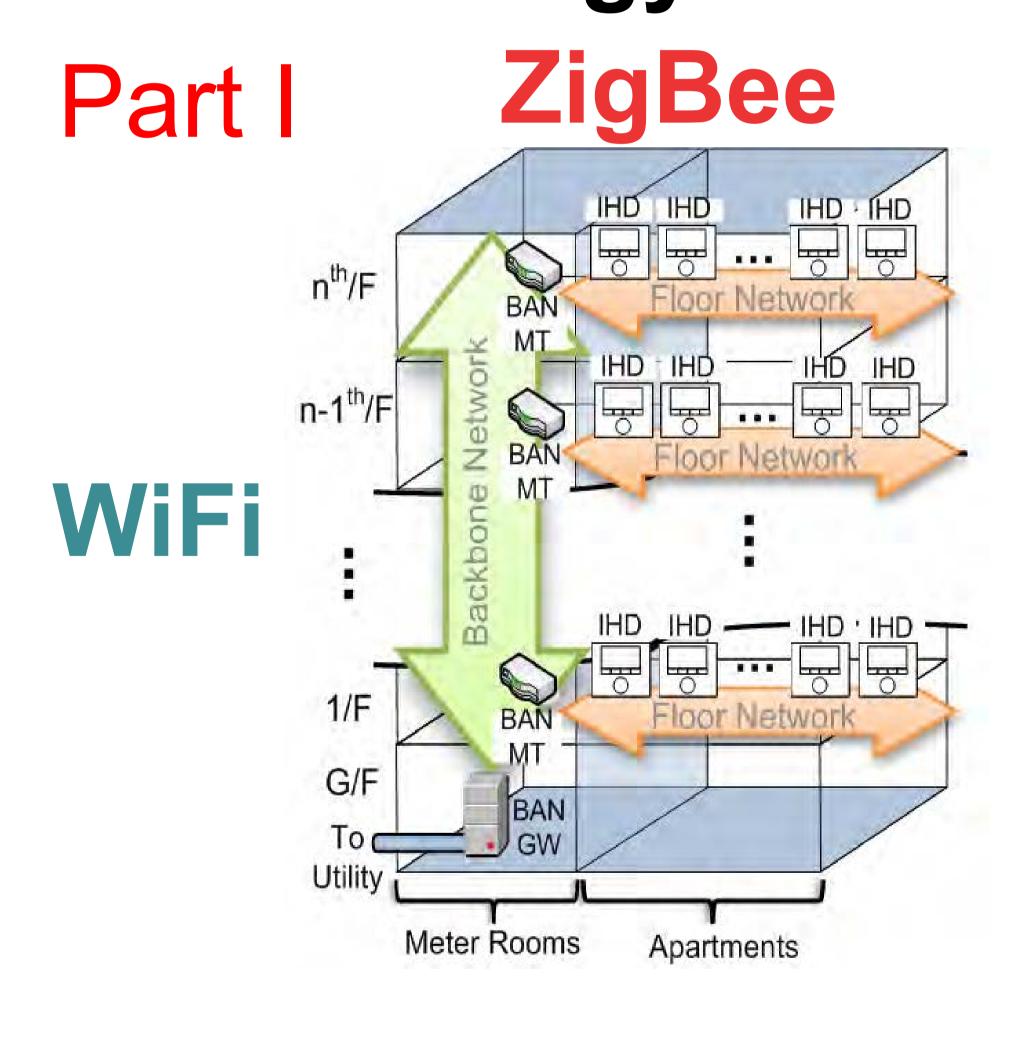
- · To achieve Sustainability and Demand Response
- To propose Building Area Network, ZigBee Energy Auditor and Appliance Signature Identification





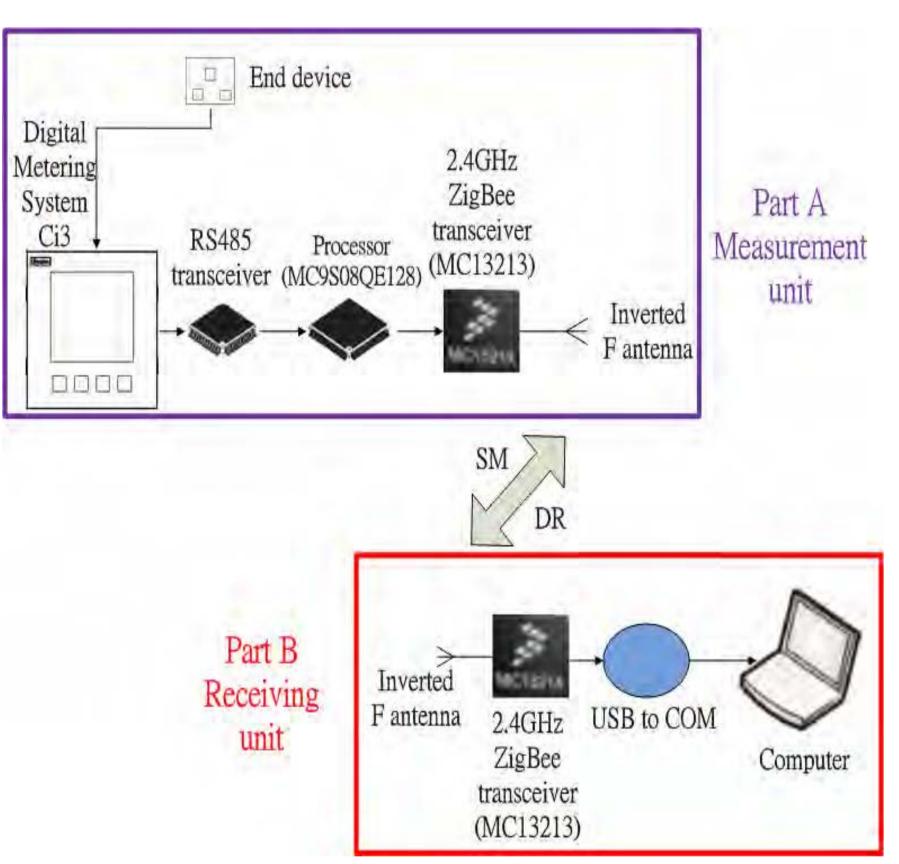


#### Methodology



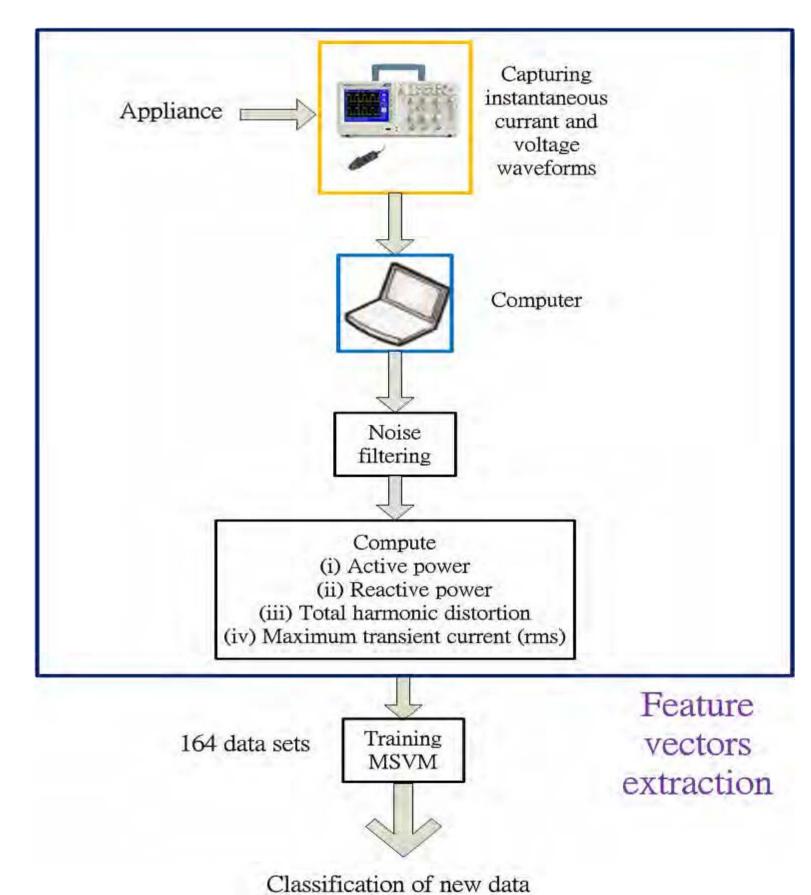
WiFi-ZigBee
Building Area Network

#### Part II



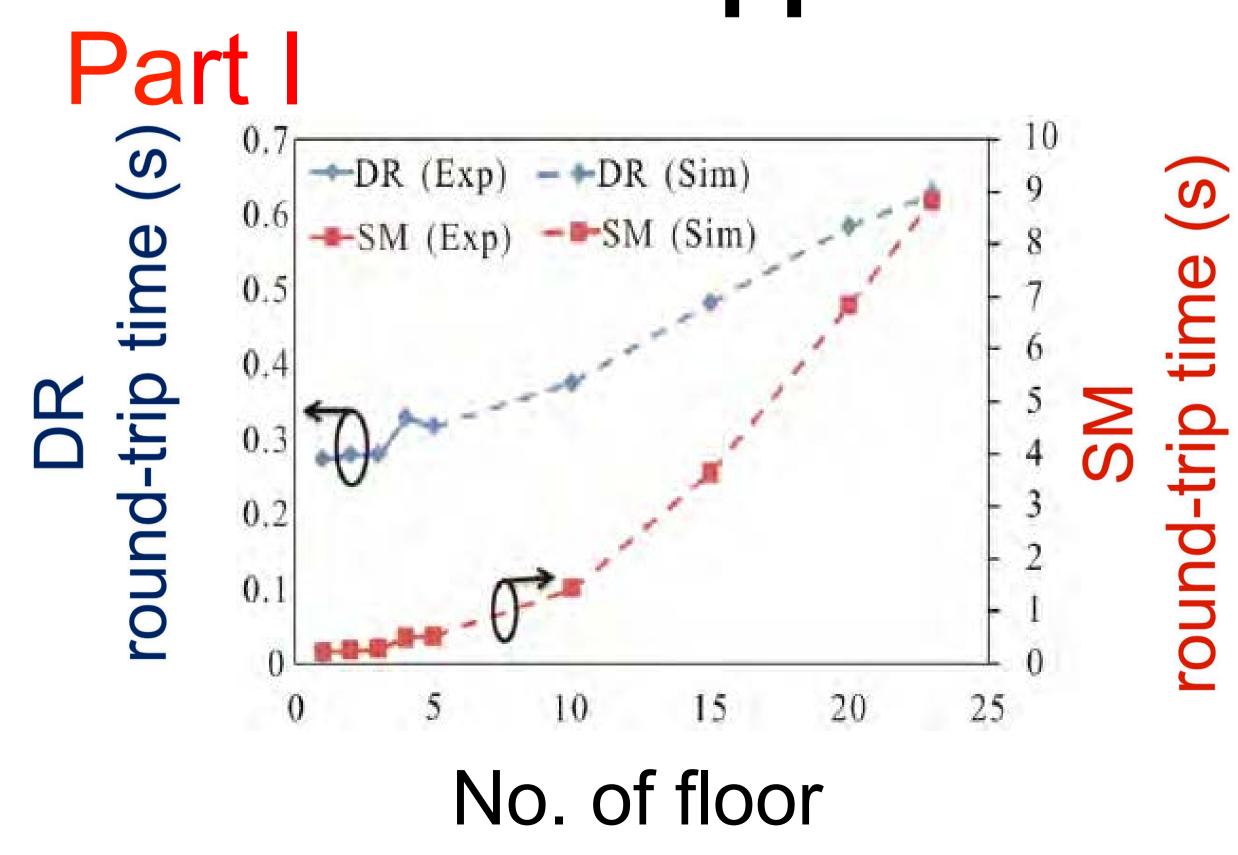
ZigBee Energy Auditor

#### Part III

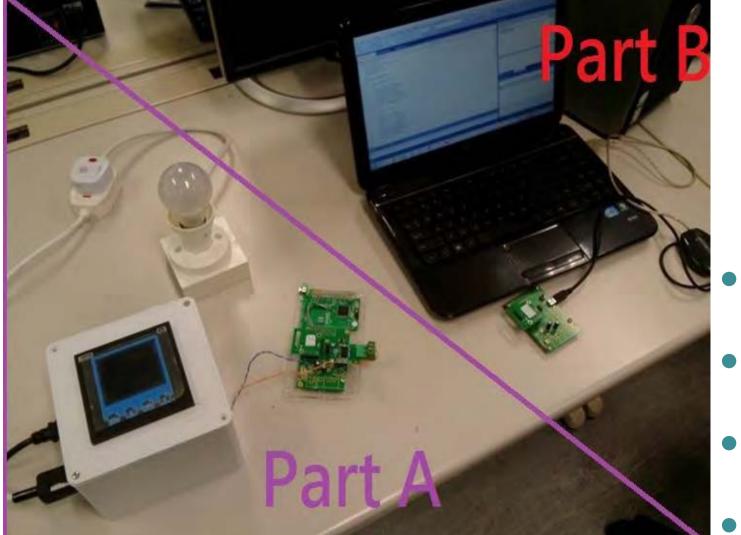


**Appliance Signature Identification Solution** 

### Results and applications



#### Part II



Hardware for energy monitoring

# Part III Classification rate 95%

•Mobile charger•Stove

Notebook
 Hair dryer

FanLight bulb

Iron brush
 Vacuum cleaner

Improved accuracy by 40%