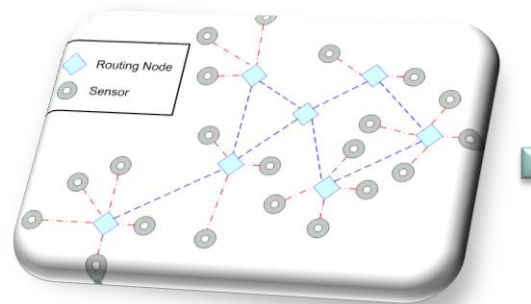


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AI-BASED HOME/OFFICE SMART COMFORTABLENESS CONTROL

Infrastructure

Smart Lab



WSNs based on μ Parts

SmartTecO System

1. Web interface
2. Connection with WSNs
3. Remote control



↑
CUL



Plugwise system for energy sensing

↓
CUL



Research Proposal

- AI-based heating energy prediction and activity recognition for Intelligent HVAC control system in the home/office setting

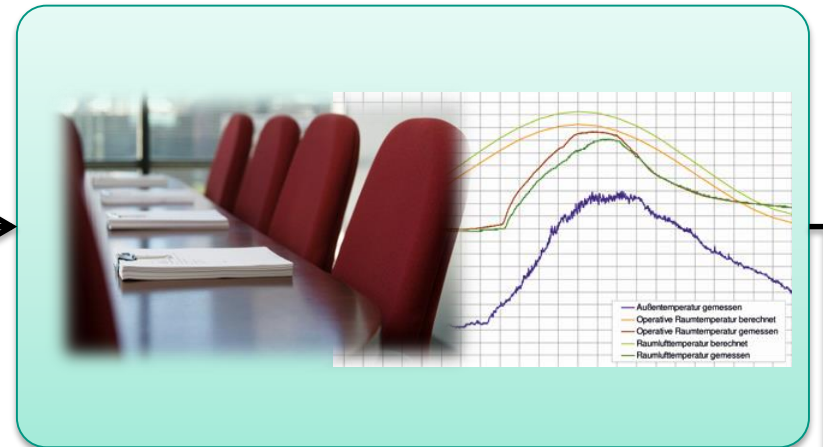
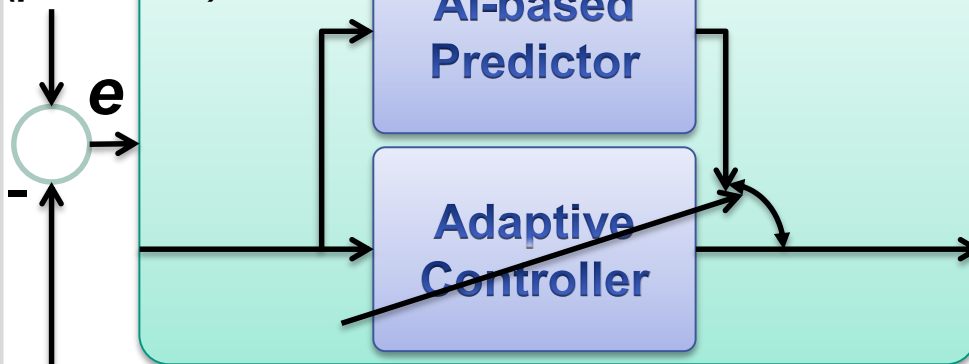
Controller

HVAC control with/without heating prediction

System Plant

System modeling of temperature development

Reference input
(preference)



Preference:

- comfort criteria
- energy saving objectives

