

Smarter buildings with ML

Background:

Reviewing and optimizing HVAC (Heating, Ventilation, and Air Conditioning) systems and related equipment is still done manually to a high degree. There is quite often data available, but it is often reviewed at a single moment in time or simple rule-based analytics is applied. Certain companies are using more advanced rule-based analytics to optimize system settings in regard to energy usage and to detect faults. Here, machine learning could potentially be used to increase efficiency and to save energy.

Description and objective:

- Are there any successful cases of ML being used to optimize HVAC systems? How much energy could be saved and what is the payback time?
- What areas of building management are most suitable for the use of ML given the potential savings and investment costs?
- Potentially partnering with a property company and getting access to their energy data and data from HVAC systems (temperatures, pressures, setpoints) to apply ML.

