

OccuRE: A Platform for Occupancy REasoning

Fisayo Caleb Sangogboye, Aslak Johansen and Mikkel Baun Kjærgaard

Occupant Behaviour versus Energy Consumption

- **Definition:** Occupant behavior covers all actions of the occupant (including presence) that affect building energy consumption.
- Occupant behavior determines a large share of the energy consumption of buildings.
- Information about occupant behavior provides a mean for software-based building applications to optimize this share.

OccuRE: A Platform for Occupancy REasoning

- OccuRE is a software platform that enables flexible estimation and prediction of occupancy behavior.
- OccuRE provides an application programming interface (API) for calculating and accessing occupancy information
- The platform implements a wide selection of algorithms for occupancy behavior based on sensor fusion, machine learning and prediction algorithms.
- The platform is being developed from TRL2 to TRL6 over the coming years

Platform and Applications

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Project Relations

- The action is part of WP1 of the COORDICY project and WP3 of the DR Capacity in Commercial Buildings project.
- The platform is demonstrated in the LEOB project.
- The work contributes the international activities in IEA-EBC Annex 66.

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