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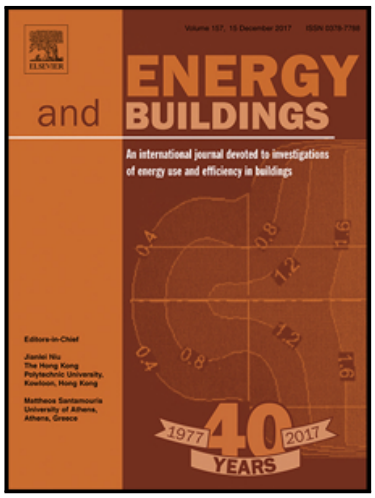

A review of occupant behaviour in residential buildings

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Highlights

- Understanding the human-building interactions in residential buildings has a high potential of energy saving.
- Monitoring occupant behaviour in residential buildings presented challenges referring to movements between spaces, diversity of activities and, privacy issues.
- Mixed-mode methods for monitoring occupant behaviour provided explanatory variables and allowed triangulation of monitoring results.
- Occupancy and interactions with building devices are highly dependent on time, which was explored by stochastic modelling methods.
- Occupant behaviour models provide the possibility to evaluate accurate scenarios for human-building interaction in order to enhance building energy performance.

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