

Accepted Manuscript

A review on occupant behavior in urban building energy models

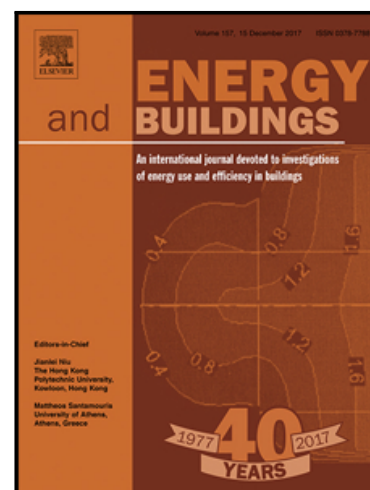
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PII: S0378-7788(17)33358-3
DOI: [10.1016/j.enbuild.2018.06.030](https://doi.org/10.1016/j.enbuild.2018.06.030)
Reference: ENB 8632

To appear in: *Energy & Buildings*

Received date: 10 October 2017
Revised date: 1 June 2018
Accepted date: 17 June 2018

Please cite this article as: Gabriel Happle, Jimeno A. Fonseca, Arno Schlueter, A review on occupant behavior in urban building energy models, *Energy & Buildings* (2018), doi: [10.1016/j.enbuild.2018.06.030](https://doi.org/10.1016/j.enbuild.2018.06.030)



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Highlights

- Modeling approaches for occupant behavior in urban building energy models are reviewed and categorized.
- Three categories of models are introduced: (1) Deterministic space-based models, (2) stochastic space-based models, and (3) stochastic person-based models.
- Urban building energy modelling tools usually couple archetypical construction properties of buildings with standardized deterministic space-based occupant behavior models.
- Stochastic occupant behavior models possess superior capabilities but are only used for office and residential occupancy type buildings on the urban-scale
- A novel urban-scale agent-based occupant behavior model could improve the functionality of urban building energy models as holistic planning tools.

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