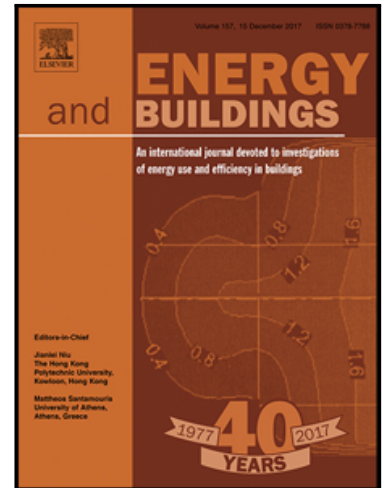


## Accepted Manuscript

In-situ real time measurements of thermal comfort and comparison with the adaptive comfort theory in Dutch residential dwellings.

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## Highlights

- In-situ measurement of thermal comfort and its parameters in social housing residential buildings
- Wireless collection of time-coupled qualitative and quantitative data for 30 dwellings
- The adaptive model might be overestimating and/or underestimating tenants' adaptive capacity in relation to achieving thermal comfort , which could come at the expense of energy consumption
- Tenants might feel non-neutral thermal sensations such as 'cool', 'a bit cool', 'a bit warm' or 'warm', and still consider these as comfortable.
- Many common actions are falsely related to thermal comfort in residential dwellings while there are differences even between dwellings with different energy labels.

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