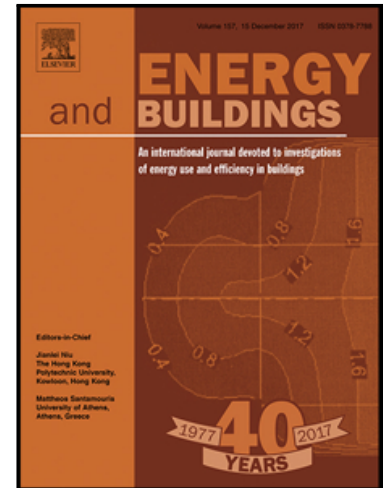


Accepted Manuscript

Non-Intrusive Occupancy Monitoring for Energy Conservation in Commercial Buildings

Omid Ardakanian, Arka Bhattacharya, David Culler

PII: S0378-7788(18)30407-9
DOI: <https://doi.org/10.1016/j.enbuild.2018.09.033>
Reference: ENB 8819



To appear in: *Energy & Buildings*

Received date: 2 February 2018
Revised date: 13 September 2018
Accepted date: 23 September 2018

Please cite this article as: Omid Ardakanian, Arka Bhattacharya, David Culler, Non-Intrusive Occupancy Monitoring for Energy Conservation in Commercial Buildings, *Energy & Buildings* (2018), doi: <https://doi.org/10.1016/j.enbuild.2018.09.033>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Non-intrusive techniques are proposed to infer occupancy from existing HVAC sensors
- Reheat energy use is reduced by more than 38% with better nighttime setback schedules
- Derived a comprehensive set of candidate anomalous zones using unsupervised learning
- Proposed approach can be readily applied to any commercial building with a BMS

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/11024226>

Download Persian Version:

<https://daneshyari.com/article/11024226>

[Daneshyari.com](https://daneshyari.com)