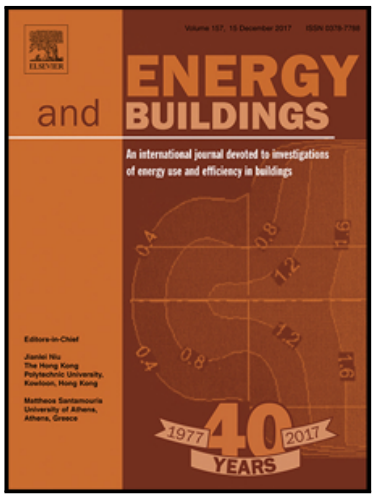

Data and analytics for heating energy consumption of residential buildings: The case of a severe cold climate region of China

Chen Chang , Neng Zhu , Kun Yang , Fan Yang

PII: S0378-7788(18)30428-6
DOI: 10.1016/j.enbuild.2018.04.037
Reference: ENB 8510

To appear in: *Energy & Buildings*

Received date: 3 February 2018
Revised date: 11 April 2018
Accepted date: 18 April 2018

Please cite this article as: Chen Chang , Neng Zhu , Kun Yang , Fan Yang , Data and analytics for heating energy consumption of residential buildings: The case of a severe cold climate region of China, *Energy & Buildings* (2018), doi: 10.1016/j.enbuild.2018.04.037

Highlights:

- Heating energy consumption analysis of residential buildings in northern China.
- Energy performance of 40 residential buildings from 5 regions were investigated.
- Building labelling according to energy consumption and physical ability.
- Combination use of clustering and discriminate analysis give superior accuracy.
- Preparation for the retrofit of heating cost allocation method.