Accepted Manuscript

Energy Consumption Model with Energy Use Factors of Tenants in Commercial Buildings Using Gaussian Process Regression

Young Ran Yoon, Hyeun Jun Moon

 PII:
 S0378-7788(17)32920-1

 DOI:
 10.1016/j.enbuild.2018.03.042

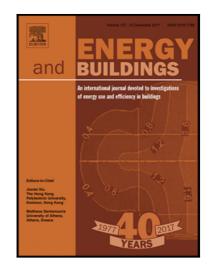
 Reference:
 ENB 8428

To appear in: Energy & Buildings

Received date:	27 August 2017
Revised date:	8 March 2018
Accepted date:	13 March 2018

Please cite this article as: Young Ran Yoon, Hyeun Jun Moon, Energy Consumption Model with Energy Use Factors of Tenants in Commercial Buildings Using Gaussian Process Regression, *Energy & Buildings* (2018), doi: 10.1016/j.enbuild.2018.03.042

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

- Identified the influence of the energy use factors (e.g., occupant related factors, indoor air conditions such as heating set temperature, equipment types such as heating system, lighting system, and plugged load) for the energy consumption of each tenant in commercial buildings
- Established a method to identify the combination of variables that could provide a more accurate estimation of energy consumption using Gaussian process regression
- Identified that the significant variables to consider for developing an energy consumption model differ depending on the tenant usage, i.e., office or retail

Download English Version:

https://daneshyari.com/en/article/6728071

Download Persian Version:

https://daneshyari.com/article/6728071

Daneshyari.com