Accepted Manuscript

Improving the quality of building spaces that are planned mainly on loads rather than residents: Human comfort and energy savings for warehouses

Sung-yong Park, Soolyeon Cho, Jonghoon Ahn

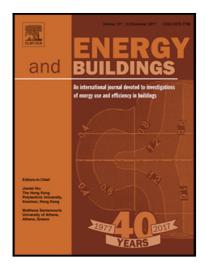
PII: S0378-7788(18)30555-3

DOI: https://doi.org/10.1016/j.enbuild.2018.08.007

Reference: ENB 8743

To appear in: Energy & Buildings

Received date: 15 February 2018
Revised date: 5 August 2018
Accepted date: 6 August 2018



Please cite this article as: Sung-yong Park, Soolyeon Cho, Jonghoon Ahn, Improving the quality of building spaces that are planned mainly on loads rather than residents: Human comfort and energy savings for warehouses, *Energy & Buildings* (2018), doi: https://doi.org/10.1016/j.enbuild.2018.08.007

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.

ACCEPTED MANUSCRIPT

Highlights

- A study on building spaces emphasizing work efficiency only is proposed to improve both thermal comfort and energy efficiency.
- New strategies are required to improve the quality of warehouses in keeping with growth of warehouse industry.
- The FIS and ANN algorithms are developed to optimize amount of air and its temperature for space heating and cooling.
- A real-time detection of thermal comfort modifies the ANN signals to mitigate increases in thermal dissatisfaction.
- A proposed model improves thermal comfort and energy use intensity in warehouses by 4.4% and 6.4%, respectively.

Download English Version:

https://daneshyari.com/en/article/10145818

Download Persian Version:

https://daneshyari.com/article/10145818

<u>Daneshyari.com</u>