Indoor and Built Environment

Special Issue on: Parameters for Sustainable Management of Buildings

This special issue has been produced with the support of the Center for Sustainable Healthy Buildings (CSHeB), Kyung Hee University in the Republic of Korea, supported by the National Research Foundation of Korea (NRF) grant funded by the Korea Government (MSIP)(No. 2008-0061908).

Contents

Editorial 107 Comparative verification of high dynamic range image tools for luminous analysis of visual Parameters for sustainable management of buildings environment C. W. F. Yu and J. T. Kim H. S. Lim, J. T. Kim and G. Kim 118 Finding the optimal set points of a thermal and ventilation control system under changing outdoor Review Paper weather conditions H. Liu, S. Lee, M. Kim, H. Shi, J. T. Kim and C. Yoo Ventilation rates in European office buildings: A review 133 Depth video-based gait recognition for smart home C. Dimitroulopoulou and J. Bartzis using local directional pattern features and hidden Markov model Md. Z. Uddin, J. T. Kim and T.-S. Kim Original Papers 141 Characterizing the interaction design in healthy A framework for modelling non-steady-state smart home devices for the elderly concentrations of semivolatile organic compounds M. E. Cho and M. J. Kim indoors - II. Interactions with particulate matter 150 Residents' and experts' perspectives for evaluation of Z. Guo importance of Health Performance Indicators in Hazardous materials in buildings social housings J. T. Kim and C. W. F. Yu N. N. Kang, T. K. Lee, J. T. Kim and C. G. Kim 62 Mitigation of urban heat island effect and greenroofs 161 Application of Smart Frames to tall buildings with J. S. Lee, J. T. Kim and M. G. Lee dual systems and with building frame systems S.-C. Park, W. K. Hong and J. T. Kim Multi-objective optimization of building envelope for energy consumption and daylight 171 Mould germination and the growth rate on B. Lartigue, B. Lasternas and V. Loftness wallpapers with different physical properties and the surface structures 81 Application of the mechanical ventilation in elevator S. H. Ryu and H. J. Moon shaft space to mitigate stack effect under operation stage in high-rise buildings 180 Power performance of photovoltaic-integrated D. Song, H. Lim, J. Lee and J. Seo lightshelf systems T. Hwang, J. T. Kim and Y. Chung 92 Investigation of building integrated photovoltaics

A. Kylili and P. A. Fokaides

potential in achieving the zero energy building target