

Exploratory Approach to Performance of Smart Components of Intelligent [Smart] Buildings

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Abstract

Intelligent building is gaining access to the construction industry all over the world in recent times. Building functionality and the need for occupant comfort has been the major drive toward advent of intelligent Buildings. In the light of this, there is a need to carry out continuous evaluation of performance of the building to ensure value for money. In this study therefore, post-occupation building managers at different levels of types of buildings were censored within the scope of the following parameters; awareness on current state of practice in office intelligent building application, the level of satisfaction of managers and the users of intelligent buildings' performance, effectiveness of the security system and access control in building and performance enhancement measures to be adopted and factors that influences effective performance of intelligent building accessories. Survey method was used with the aid of questionnaire the resultant data was analyse using relative agreement index (RAI), Mann-Whitney U-Test, Pearson's Chi-square test and Student's T-test. The study presented factors that influences integration of automated accessory in building and their performance, effectiveness of security system and access control, conventional automation application

in building products among others. The study recommend constructive innovative approach to intelligent building management, strategic plan should be instituted in maintenance operation, proactive management building accessory, and collaborative stake holder inclusive management, as panacea to forestalling negative attendant consequence of facility negligence in intelligent building.

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