CITY UNIVERSITY OF HONG KONG

DEPARTMENT OF BUILDING & CONSTRUCTION

DISSERTATION:
EVALUATION OF BUILDING INTELLIGENCE OF CITY UNIVERSITY OF HONG KONG

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Abstract

Although intelligent buildings are primarily being developed in the form of office buildings, many other types of buildings can and is being developed with intelligence such as manufacturing plants, hospitals, hotels, schools and government facilities. It is believed that no building will be immune to this trend in the future. As City University of Hong Kong (CityU) aspires to be internationally recognized as a leading University in the Asia-Pacific region, to provide a high quality and professional education, it should provide a good environment in the University for students and professionals to achieve this mission. Therefore, building intelligence is a key factor that contributes to the successful education.

The existing definitions of IBs are various around the world. It is found that it has been subject to many different interpretations. There are two main aspects can be categorized from these definitions. One is an emphasis on the use of advanced technological systems and components, which are linked and controlled by computers and advanced telecommunications techniques, to perform operational and building management functions. Another one is an emphasis on the importance of building being responsive to the needs of end-users.

In this research, the evaluation of the building intelligence was based on both aspects of definition of IBs. Actually, the case study building is a university but not an office building, so the main aspects of the IBs characteristics are an emphasis on the technology within the campus that can provide a good environment to the students and researchers and an emphasis on the students' requirements.
In order to evaluate how is the physical environment of the campus of CityU gives advantages to the students and researchers base on a view of intelligent building, the main elements of CityU were investigated and discussed. Also CityU had compared to the Standard IB which is described by DEGW in order to justify whether CityU fulfil the Standard IB requirements.
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