智慧型住宅用後評估之研究

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摘要

Green everything is now a global trend due to the mature development of semiconductor industry. Energy saving and green environment are the center of technical development. Health care industry is a new blue sea in response to the special demands derived from aging population. In addition, wireless broadband connection creates new communities and changes the patterns of consumer use, thus creating numerous new commercial models. These three major trends will accelerate the semiconductor industry to the integration of embedded artificial intelligence, Internet and wireless technology. The trends of integration are everywhere from urban environment to individual residences and even from avionics to medical equipment. Most of buildings are provided with FTTH infrastructure. Fiber optics network is the intelligent nerves of intelligent residences through which high speed network, illumination control, audio/video control, home theater, temperature control, house security, sensory security, remote caring and remote monitoring and many more are realized. So far, many buildings in Taiwan are equipped with home automation as a standard feature to serve as a core value for selling these buildings. This feature also works as effective segregation of product market to improve the buildings' added values and hopefully accelerate their sales. It is safe to say that the era of intelligent residences has arrived.

Hsinchu is the most important cluster of technology industries in Taiwan. However, there is a distinctive gap between the inside and outside of the Hsinchu Science Park in terms of environmental level. Despite produced in this city, the high-tech products are not properly used in daily life, as the inpouring of high-tech practitioners created the booming development of local real estate business. However, that did not induce the effective integration of high-tech industry and residences. With expert

questionnaires and after-use evaluation of existing intelligent residences in Taiwan, the context technology and establishment costs of the index cluster and functionality cluster of intelligent residence infrastructure were summarized for this study. Questionnaires were used to obtain the overall acceptance of high-tech practitioners toward intelligent residences. The study result was compiled to extract the key factors (equipment) of the intelligent residences as the reference basis for future intelligent residence design.

關鍵字：Intelligent Architecture, Intelligent Residence, High-tech Practitioner, After-use Evaluation