

The Study of Campus Pass Administrative System via Axiomatic Design

葉宗棋、宋明弘

E-mail: 9708042@mail.dyu.edu.tw

ABSTRACT

There are many people and vehicles entry and exit the campus everyday. If the pass administrative system is unable to conform to requirement, which will perplex identification and cause inconvenient to teachers, staffs, students, delivery and guests etc. In the recent, the ticket has been applied in actual life widely. Making design decision of ticket system correctly with an effective method which can simplify the user's application procedure and improve administration efficiency. Many products, process and organizations are complex system design. Axiomatic Design provides the principle and aspect for design. First of all, this study analyze administrative system of campus pass according with school policy and characteristic of campus based on Axiomatic Design. Secondary, we apply design matrix and zigzagging between domains to plan and design system. Then evaluate system with the independent axiom and information axiom. Finally, our proposed approach is illustrated a sample case of university campus. The valuable results displayed by this school effectively demonstrate feasibility of applying the Axiomatic design methodology in designing campus pass administrative system.

Keywords : Campus pass ; Axiomatic design ; System design

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