Object-Oriented Requirements Analysis Method-Using a Fault Tree Drawing System as an Example

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ABSTRACT

The method of object-oriented requirements analysis for HCI has a visionaryfunction in information systems development.Especially,if method is integratedwith system analysis and design methods,if would be conductive to designinginformation systems to meet user requiremnets very well.Although object-oriented requiremnets analysis methods proliferate in the literature,theinvestigation of how to integrate object-oriented requirements analysis methodswith HCI in the environment of direct manipulation is still rare.The present research attempts to propose a method of requirements analysis forHCI in the enviroment of direct manipulation,built on the base of object-orientation and unified modeling language(UML).The proposed method divides the analysis the system into four stages,viz. identification of user''s expectationsabout the system,search of domain objects,discovery of the relationships between domain objects and integrated domain analysis.A case study on a faulttree drawing system has been conducted to illustrate how the proposed methodworks in reality.Experience tells that the proposed method facilitates the acquisition of user requirements and the transition from analysis to desgin for this type of application domain.

Keywords : 物件導向 ; 需求分析 ; 直接操作 ; 人機介面

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