

New HCI Design Process Education

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Abstract : Human Computer Interaction (HCI) is a subject covering the study, plan, and design of interactions between humans and computers. The prevalent use of digital mobile devices is increasing the need for education and research on HCI. This work is focused on a new education method geared towards reducing errors while developing application programs that incorporate role-changing brainstorming techniques during HCI design process. The proposed method has been applied to a capstone design course in the last spring semester. Students discovered some examples about UI design improvement and their error discovering and reducing capability was promoted. An UI design improvement, PC voice control for people with disabilities as an assistive technology exemplar, will be presented. The improvement of these students' design ability will be helpful to the real field work.

Keywords : HCI, design process, error reducing education, role-changing brainstorming, assistive technology

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