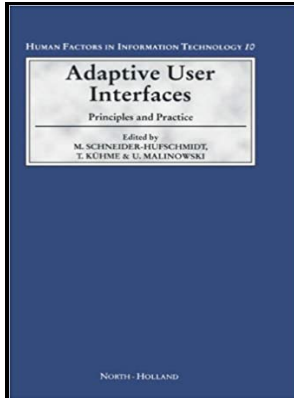


Adaptive user interfaces - principles and practice

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ADAPTIVE USER INTERFACES

This paper does not aim to reiterate the argumentation for adaptive interfaces, but instead to present the approach taken in the context of the AVANTI project towards the development of a. Many software systems' usability suffers from their complexity, usually caused by the market-driven trend to bundle a huge amount of features, which are supposed to increase the product's attractiveness. Both adaptive and adaptable user interfaces are intended to fit the needs of individual users and their tasks better.

User

Already today, visitors of web sites are generally heterogeneous and have different needs, and this is likely to increase in the future.

Adaptive User Interfaces: Principles and Practice

Much effort has been spent in trying to find a stable theoretical base for adaptivity in human-computer interaction and to build prototypical systems showing features of adaptivity in real-life interfaces. November 2008 An adaptive user interface also known as AUI is a UI which adapts, that is changes, its layout and elements to the needs of the user or context and is similarly alterable by each user. The applicability of these findings is illustrated in the context of an adaptive action prompting environment.

Adaptive User Interfaces: Principles and Practice (Volume 10) by Schneider

These implementations can differ between the amount of information available to certain users, or how users utilize the application. Additionally, the paper describes the components of a prototype design environment called USE-IT which has been developed to support the automatic derivation of such adaptation decisions so as to ensure that the resulting user interface will be accessible by the target user group.

Adaptive user interface

In this paper we advance a multi-agent TV recommender system that encapsulates three user information streams--implicit view history, explicit

preferences, and feedback information on specific shows--into adaptive agents and generates program recommendations for a TV viewer. This attempt, however, more often than not leads to software with poor usability characteristics, therefore requiring an extensive amount of initial effort for the users to become familiar with the system. Intelligence at the level of the user interface is currently being supported through a number of prevalent strands, including adaptive user interfaces, model-based user interface development and interface agents.

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The aim of the AVANTI project is to cater hypermedia information to these individual needs by adapting the content and the presentation of web pages to each individual user. On top of being an issue from sorting and interpreting information from the user in order to predict their needs, this can give rise to security issues.

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One aim of this research is to verify that adaptation and user modeling techniques that were hitherto mostly used for catering interactive software systems to able-bodied users also prove useful for adaptation to users with special needs. .

Adaptive User Interfaces: Principles and Practice

This may mean that users with only basic knowledge of a system will only be shown minimal information. These mutually reciprocal qualities of both adapting and being adaptable are, in a true AUI, also innate to elements that comprise the interface's components; portions of the interface might adapt to and affect other portions of the interface.

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