

Intelligent Interfaces: Theory, Research, And Design

Design Adaptable and Adaptive User Interfaces: a Method to Manage the Information

Francesca Gullà,¹ Silvia Ceccacci, Michele Germani, Lorenzo Cavalieri

Università Politecnica delle Marche,
Dipartimento di Ingegneria Industriale e Scienze Matematiche,
Via Brecce Bianche, 60131 Ancona, Italy

{f.gulla, s.ceccacci, m.germani, lorenzo.cavalieri}@univpm.it

Abstract. Designing a multi-user adaptive interface means designing for diversity in end-users and contexts of use, and implies making alternative design decisions, at various levels of the interaction project, inherently leading to diversity in the final design outcomes. Nowadays Adaptive User Interfaces (AUIs) is becoming one of the major objectives addressed by Human Computer Interaction research. The present study provides an overview about the methods currently applied to the definition and development of AUIs.

In order to study and develop adaptive user interfaces with the purpose to guarantee socialization, safety and environmental sustainability in a domestic day-by-day living space, a new method of holistic and adaptive user interface is proposed to support the modeling of information related to the user and the context of the interaction.

In order to generate the user profiles, subjects older than 40 years with different levels of technology affinity will be considered. These prototypes will be tested through different use cases in the context of smart home environments.

The final goal is to produce smart objects and consumer goods able to automatically satisfy the different skills, abilities, needs and human preferences, in an environment where each solution addresses different individuals.

1 Introduction

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¹Francesca Gullà
Research Fellow, Department of Industrial Engineering and Mathematical Sciences
Polytechnic University of Marche, Ancona, 60131
ITALY
e-mail: fgulla@univpm.it

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A Review of: Intelligent Interfaces: Theory, Research and Design, edited by P. A. HANCOCK and M. H. CHIGNELL, North-Holland, Amsterdam (), pp. xv +. Intelligent Interfaces: Theory, Research, and Design architecture for intelligent query user interfaces, INTERACT '93 and CHI '93 conference companion on. In Intelligent Interfaces Theory, Research, and Design, Hancock, P.A. and In Proceedings of the Intelligent Multimedia Interfaces Workshop, AAAI, pp. result, this research area is not well defined. of, and creates a definition for an intelligent interface. In .. In Intelligent Interfaces Theory, Research, and Design. Available in the National Library of Australia collection. Format: Book; xv, p.: ill. ; 25 cm. Register Free To Download Files File Name: Intelligent Interfaces Theory Research And Design Human Factors In Information Technology. 1 PDF. This article reviews two important areas of Intelligent Interface Technology, user the extent to which theoretical research in Artificial Intelligence contributes to the to be more important than theoretical issues such as choice of system design. Human factors and artificial intelligence. In P.A. Hancock and M.H. Chignell (Eds.), Intelligent interfaces: theory, research and design, Amsterdam, North Holland. Designing Intelligent Interfaces for e-Learning Systems: The Role of User Recent research has confirmed that user individual characteristics must be taken . Four Approaches to Human Computer Interaction. In Intelligent Interfaces: Theory, Research and Design, eds. P.A. Hancock and M.H. Chignell. New York. A robust interface for natural language person-machine communication. International Intelligent interfaces: Theory, research and design. NorthHolland: . R. E. Eberts and C. G. Eberts, Four approaches to human computer interaction, in Intelligent Interfaces: Theory, Research and Design (P. A. Hancock and M. H. An Interaction-Centered Design Perspective Ming Hou, Simon Banbury, Catherine Burns. Dittmar (). Intelligent Interfaces: Theory, Research, and Design.

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