

2 Interface Problems

The normal situation, when a user wants to work with different devices, is generally known. Each device has its own user interface and its own input devices (fig. 1a) [6].



Fig. 1. Standard (a) versus optimal (b) situation when an user works with different devices

For handicapped persons this can mean a new problem: Often it is not possible to use different devices at the same or nearly at the same time. If someone drives a wheelchair he cannot use a communication aid at the same time, if the only movement he is able to perform is needed for driving the wheelchair. Usually a special device or switch is needed additionally to the wheelchair equipment and it is questionable if this could be operated then. Desirable is one user interface for various devices (fig 1b). For example, a communication aid and a powered wheelchair can be operated via the same input devices and the same monitor program.

In practical use of assisting devices, we encountered another interface problem: in the training situation of handicapped persons in our rehabilitation centre. As described above, the choice of input devices and the electronic aids themselves depend on the abilities and needs of the handicapped persons. Every user has his own devices with specific interfaces. This means for a trainer, who e.g. wants to train persons in communicating via symbols, that he has to learn the operation and method of adaption (configuration) of all the communication devices in use. Furthermore, the persons in charge in a residential home for handicapped persons have to learn all services and all the interfaces they have contact to (fig. 2a).



Fig. 2a. Standard situation when a trainer trains several users on devices of the same kind

Additionally, this is not only an inter-individual but also an intra-individual problem: in the case of assisted communication it is possible that someone who begins with a communication aid based on symbols learns more symbols or more complex symbol systems, or he learns to read and to write letters. Seldom the functionality of the communication aid grows as the abilities of its user grows. Usually the disabled person and also his trainer has to change to another

The Adaption Of Virtual Mancomputer Interfaces To User Requirements In Dialog

George Eric Lasker



The Adaption Of Virtual Mancomputer Interfaces To User Requirements In Dialog:

Computing Skills and the User Interface M. J. Coombs, J. L. Alty, 1981 Part I The needs of computer users Communicating with university computers users a case study University computer users characteristics and behaviour The needs of the commercial user Part II The nature and acquisition of computing skills Teaching novices programming Comprehending and debugging computer programs The art of notation When do diagrams make good computer languages Acquiring a first computer language a study of individual differences Generating a programming environment for learners Part III The design of the user interface The user interface how we may compute Design procedures for user involvement and user support Adaptive man computer interfaces The design of an adaptable terminal Empirical and formal methods for the study of computer editors

Computer and Computing Technologies in Agriculture III Daoliang Li, Chunjiang Zhao, 2010-04-11 I want to express my sincere thanks to all authors who submitted research papers to support the Third IFIP International Conference on Computer and Computing Technologies in Agriculture and the Third Symposium on Development of Rural Information CCTA 2009 held in China during October 14-17 2009 This conference was hosted by the CICTA EU China Centre for Information Communication Technologies China Agricultural University China National Engineering Research Center for Information Technology in Agriculture Asian Conference on Precision Agriculture International Federation for Information Processing Chinese Society of Agricultural Engineering Beijing Society for Information Technology in Agriculture and the Chinese Society for Agricultural Machinery The plenary sponsor includes the Ministry of Science and Technology of China Ministry of Agriculture of China Ministry of Education of China among others The CICTA EU China Centre for Information Communication Technologies China Agricultural University focuses on research and development of advanced and practical technologies applied in agriculture and on promoting international communication and cooperation It has successfully held three International Conferences on Computer and Computing Technologies in Agriculture namely CCTA 2007 CCTA 2008 and CCTA 2009 Sustainable agriculture is the focus of the whole world currently and therefore the application of information technology in agriculture is becoming more and more important Informatized agriculture has been sought by many countries recently in order to scientifically manage agriculture to achieve low costs and high incomes

Intelligent Systems and Applications Kohei Arai, Supriya Kapoor, Rahul Bhatia, 2020-08-25 The book *Intelligent Systems and Applications* Proceedings of the 2020 Intelligent Systems Conference is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world The Conference attracted a total of 545 submissions from many academic pioneering researchers scientists industrial engineers students from all around the world These submissions underwent a double blind peer review process Of those 545 submissions 177 submissions have been selected to be included in these proceedings As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have enabled a larger number of problems to be tackled more effectively This

branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for such an international conference which serves as a venue to report on up to the minute innovations and developments This book collects both theory and application based chapters on all aspects of artificial intelligence from classical to intelligent scope We hope that readers find the volume interesting and valuable it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

Technologies for Interactive Digital Storytelling and Entertainment Stefan Göbel,Ulrike Spierling,Anja Hoffmann,Ido Iurgel,Oliver Schneider,Johanna Dechau,Axel Feix,2004-06-11 Interactive Digital Storytelling has evolved as a prospering research topic banding together formerly disjointed disciplines stemming from the arts and humanities as well as computer science It s tied up with the notion of storytelling as an effective means for the communication of knowledge and social values since the existence of humankind It also builds a bridge between current academic trends investigating and formalizing computer games and developments towards the experience based design of human media interaction in general In Darmstadt a first national workshop on Digital Storytelling was organized by ZGDV e V in 2000 which at that time gave an impression about the breadth of this new research field for computer graphics DISTEL 2000 An international follow up was planned the 1st International Conference on Technologies for Interactive Digital Storytelling and Entertainment TIDSE 2003 Taking place in March 2003 it showed a more focussed range of research specifically on concepts and first pro types for automated storytelling and autonomous characters including modelling of emotions and the user experience At TIDSE 2004 an established and still growing community of researchers ga ered together to exchange results and visions This confirms the construction of a series of European conferences on the topic together with the International Conf ence on Virtual Storytelling ICVS conducted in 2001 and 2003 in France which will be further cultivated *Proceedings of International Conference on Accelerators and Large Experimental Physics Control Systems* Kō-enerugī Butsurigaku Kenkyūjo (Japan),1992

Articulated Motion and Deformable Objects Francisco J. Perales,Edwin R. Hancock,2002-11-06 This book constitutes the refereed proceedings of the Second International Workshop on Articulated Motion and Deformable Objects AMDO 2002 held in Palma de Mallorca Spain in November 2002 The 21 revised full papers presented were carefully reviewed and selected for inclusion in the book Among the topics addressed are geometric and physical deformable objects motion analysis articulated models and animation visualization of deformable models 3D recovery from motion single or multiple human motion analysis and synthesis applications of deformable models and motion analysis face tracking recovery and recognition models Man-computer Interfaces Robert B. Coats,I. Vlaeminke,1987 Software Software Engineering *The Adaption of Virtual Man-Computer Interfaces to User Requirements in Dialogs* W. Dehning,H. Essig,S. Maass,2014-01-15 *The Adaption of Virtual Man-Computer Interfaces to User Requirements in Dialogs* W. Dehning,H. Essig,S. Maass,1981-05-01

Dr. Dobb's Journal of Software Tools for the Professional Programmer ,1989

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