Human - computer systems interaction : backgrounds and applications 2. Part 1

Abstrak

The main contemporary human-system interaction (H-SI) problems consist in design and/or improvement of the tools for effective exchange of information between individual humans or human groups and technical systems created for humans aiding in reaching their vital goals. This book is a second issue in a series devoted to the novel in H-SI results and contributions reached for the last years by many research groups in European and extra-European countries. The preliminary (usually shortened) versions of the chapters were presented as conference papers at the 3rd International Conference on H-SI held in Rzeszow, Poland, in 2010. A large number of valuable papers selected for publication caused a necessity to publish the book in two volumes. The given, 1st Volume consists of sections devoted to: I. Decision Supporting Systems, II. Distributed Knowledge Bases and WEB Systems and III. Impaired Persons Aiding Systems. The decision supporting systems concern various application areas, like enterprises management, healthcare, agricultural products storage, visual design, planning of sport trainings, etc. Other papers in this area are devoted to general decision supporting methods and tools. In the group of papers concerning knowledge bases and WEB-based systems are some focused on new computer networks technologies, models of malicious network traffic and selected problems of distributed networks resources organization and tagging. The concepts of a distributed virtual museum and of managing the process of intellectual capital creation in this part of the book are also presented. The last part of this volume contains a dozen of papers concerning various concepts and realizations of disabled persons aiding systems. Among them, the systems aimed at aiding visual or motion disability affected persons can be mentioned. The problems of residential infrastructure for ubiquitous health supervision and graphics- and gesture-based interactive children therapy supporting systems design in this volume are also presented.