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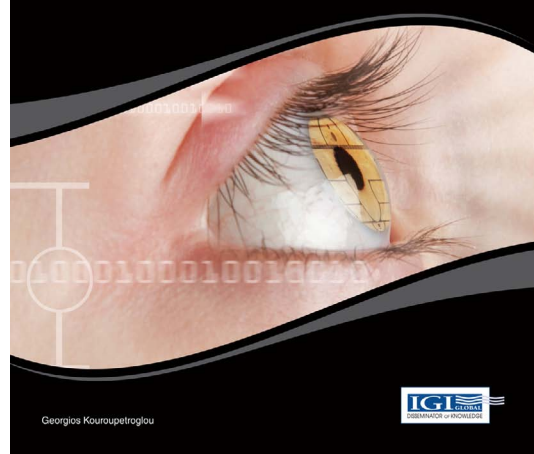
Assistive Technologies and Computer Access for Motor Disabilities

Assistive Technologies and Computer Access for Motor Disabilities

Part of the Advances in Medical Technologies and Clinical Practice Book Series

Georgios Kouroupetroglou

Part of the Advances in Medical Technologies and Clinical Practice (AMTCP) Book Series

Georgios Kouroupetroglou
(University of Athens, Greece)

Individuals with disabilities that impede their range of motion often have difficulty accessing technologies. With the use of computer-based assistive technology; devices, tools, and services can be used to maintain and improve the functional capabilities of motor disabilities.

Assistive Technologies and Computer Access for Motor Disabilities investigates solutions to the difficulties of impaired technology access by highlighting the principles, methods, and advanced technological solutions for those with motor impairments. This reference source is beneficial to academia, industry, and various professionals in disciplines such as rehabilitation science, occupational therapy, human-computer interface development, ergonomics, and teaching in inclusive and special education. This publication is integrated with its pair book Disability Informatics and Web Accessibility for Motor Limitations.

Topics Covered:

- Environmental Control
- Facial Expression Natural User Interface
- Freeware Assistive Technology Software
- Gaze-Based, Head and Face Tracking Interfaces
- Haptic and Gesture-Based Assistive Technologies
- Impact of Assistive Technology
- Pointing in Graphical User Interfaces
- Scanning-Based Interaction Techniques
- Sensor Assistive Technologies
- Technologies for Brain-Injured Gamers

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Georgios Kouroupetroglou holds a B.Sc. in physics and a Ph.D. in Communications and Signal Processing. He is member of the Academic Staff, Division of Communication and Signal Processing, Department of Informatics and Telecommunications (www.di.uoa.gr), University of Athens (www.uoa.gr) and leader of the Speech and Accessibility Laboratory (http://speech.di.uoa.gr) and the e-Accessibility Unit for Students with Disabilities (http://access.uoa.gr). His current research interests focuses on the area of Computer Accessibility and Voice User Interfaces, as a part of the major domain of Human-Computer Interaction, with emphasis in: Accessible Computing, Spoken Dialogue Human Computer Interaction, Usability, VoiceWeb, Voice Agents, Voice Processing; Analysis and Synthesis of Speech and Singing, Computer Mediated Interpersonal Communication, Information Systems/Services and Assistive Technologies for Disabled and Elderly People, Music Computing; Singing Voice Analysis, Virtual Musical Istruments, and Byzantine Chanting Analysis and Synthesis, Gesture-based User Interfaces, and Information Technologies for Interactive Learning. Professor Kouroupetroglou has actively participated in a number of European Union funded and National research projects. He has been reviewer/evaluator and member of working groups/technical panels of various European Union's projects/programs. He is author of more than 105 scientific papers in journals/conference proceedings and numerous technical reports in the fields of his interest.

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