Assistive Technologies and Computer Access for Motor Disabilities

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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

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