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Nota di contenuto	Communications and information technology for persons with disabilities — The Canadian national strategy as an example -- An intelligent information system for blind people — AI technology and philosophical aspects -- Adapting graphical user interfaces for use by visually handicapped computer users: Current results and continuing research -- Training blind people in the use of graphical user interfaces -- Artificial visual speech synchronized with a speech synthesis system -- Notational representation of sign language: A structural description

of hand configuration -- Further advances in real-time voice to text with steno interpreters -- A uniform control interface for various electronic aids -- An integrated system for communication and equipments control using radio link -- Autonomy — A flexible and easy-to-use assistive system to support the independence of handicapped and elderly persons -- Screen Reader/2 — Programmed access to the GUI -- Designing an offscreen model for a GUI -- Screen reader for Windows based on speech output -- The New Wireless LinguControl -- The FeelMouse: Making computer screens feelable -- Unexpected benefits of Voice Type computing -- Robot control methods using the RAID workstation -- The ultrasonic navigating robot, WALKY -- NavChair: An example of a shared-control system for assistive technologies -- Using spatial audio for the enhanced presentation of synthesised speech within screen-readers for blind computer users -- Multimodal concept for a new generation of screen reader -- Auditory extension of user interfaces -- An attempt to define fully-accessible workstation levels of accessibility -- Graz Brain-Computer Interface (BCI) II -- Human-computer interfacing for the severely physically disabled -- Day and assessment training technology centres -- The North America association of rehabilitation programs in computer technology seeks to network with other training programs -- Disability and rehabilitation database in Chinese language -- Toward a single global market for assistive technology -- Using structure within electronic documents to make editors more accessible -- Distinguishing pattern-types in printed documents -- Structuring documents: the key to increasing access to information for the print disabled -- Study Center for Visually Impaired Persons supportive system for blind and partially sighted Students at the University of Karlsruhe/Germany -- Support Centre for Visually impaired Students -- Educational endeavour “Computer Science for the Blind” state of the art and experiences in supporting visually handicapped students -- Modellversuch “Informatik für Blinde” -- Cottage industry at NewLink -- Telework for Handicapped people: an experience -- Ableprofessionals: A recruiting and accommodation service for Atlanta employers -- “NewsReader“ — a comfortable digital newspaper and bookreading system -- Digital talking books — a report from a practical, ongoing project -- The electronic kiosk accessing newspapers with electronic media -- Students support services at a scientific university -- Assistive technology in us higher education: The University of Wisconsin-Whitewater experience -- Leadership and Technology Management (LTM) the strategic management of technology in a consumer-driven environment -- Multimedia information system on assistive devices -- REHA — A multimedia system to learn about IT-systems for disabled persons -- Introducing voice control — Widening the perspective -- Mathtalk: The design of an interface for reading algebra using speech -- A method of access to computer aided software engineering (CASE) tools for blind software engineers -- Automatic image processing in developmental testing of visual-motor integration -- Computer neuropsychological training in mentally retarded children -- Computer training in cognitive remediation of the traumatic head injured -- Computer utilisation for speaking re-education -- The effectiveness of the Intonation Meter for teaching intonation to deaf persons -- Application of Artificial Intelligence methods in a word-prediction aid -- Speech therapy, new developments and results in LingWare -- Projective display of document information by parametric sound beam -- Synthesizing non-speech sound to support blind and visually impaired computer users -- Stereo sound board for real time auditory coding of visual information

-- DHT — Diary handy terminal — for evaluating fluctuations in patients with Parkinson's disease (PD) -- Development of the system to teach the bedsores prevention method for wheelchair users -- Development of the bedsores alarm system using microcomputer for wheelchair users -- A case study of computer analysis of the arthritic user in rehabilitation engineering -- Evaluation of Ergolab -- Dynamic displays: the changing face of augmentative communication -- BLISSVOX — Voice output communication system for teaching, rehabilitation, and communication -- Access to the text component of multimedia conversation services for non-speaking people with severe physical disabilities -- Protocolling the TINATEL-System: A contribution for long term evaluation of an AAC-system for speech impaired persons to access the public telephone network -- The conventional Braille display state of the art and future perspectives -- The concept of a full screen tactile display (FSTD) driven by electrochemical reactions -- Displaying laterally moving tactile information -- A new architecture conception for a two dimensional tactile display -- Tactison: a multimedia learning tool for blind children -- Fortec's efforts to support mainstream education through research and technology development -- Providing assistive technology training to a rural school of education through an in-direct service strategy -- The CORES project -- Real time HCI and limits of human performance -- Computer and Computer Communication Guidance Centre for the Disabled -- Assistive technology in the public schools -- ADAMLAB Educational agency designs Voice Output Communication Aid -- Large print desktop-publishing by PC for the partially sighted -- A new approach in designing low vision aids (LVA) -- Multimedia authoring systems for constructing education packages for Special Needs Education -- Computer-aided Instruction with blind persons on an audio-tactile basis -- Authoring software in special education -- Radio computer communications network for disabled people -- An investigation of Global Positioning System (GPS) technology for disabled people -- Telecommunity telecommunication for persons with mental retardation — A Swedish perspective -- Tactile-audio user interface for blind persons -- Computer-aided access to tactile graphics for the blind -- Braille reader -- Computer camp for the handicapped and their family members -- SMLLSTPS: the software version of the Macquarie Program, a computerized child assessment system -- Development and use of a speech recognition system for physically handicapped users -- Head mounted accelerometers in the control of a video cursor -- Computer assisted training programme for early intervention for children with mental retardation.

Sommario/riassunto

This volume presents the proceedings of the 4th International Conference on Computers for Handicapped Persons (ICCHP '94), held in Vienna, Austria in September 1994. ICCHP '94 was organized by the Austrian Computer Society and the Rehabilitation Engineering Group at the Vienna University of Technology with the support of IFIP, CEPIS, BSC, GI, SI, ACM, and IEEE. The book contains 95 refereed contributions, including 9 scientific posters and 13 short reports, and addresses all current aspects of computers for handicapped persons and human-computer interaction from the point of view of human disabilities.
