Table of Contents

Invited Contributions

Structured Access to Documents, Digital Talking Books, and Beyond: The DAISY Consortium ........................................ 1
  George Kerscher
eEurope – eAccessibility – User Participation
Participation of People with Disabilities and Older People in the Information Society
(Introduction to the Special Thematic Session) ......................... 3
  Christian Bühler
From Research to Business Improving the Take Up of Results of Research Projects Introduction to the Workshop ..................... 6
  Christian Bühler

Universal Access to Information Society Technologies: Opportunities for People with Disabilities

Universal Access to Information Society Technologies: Opportunities for People with Disabilities ......................... 8
  Constantine Stephanidis, Pier Luigi Emiliani
Accessibility and Usability of eCommerce Systems ..................... 11
  Keith Gladstone, Cathy Rundle, Tara Alexander

Recommending Context-Sensitive and Process-Oriented Tourist Information to the Disabled – The PALIO Case ...................... 19
  Michael Pieper

Web Site Accessibility Auditing Tool for Visually Deficient Persons OCAWA .......................................................... 27
  Denis Chêne, Michel Hoël

User-Centered Interface Design for Disabled and Elderly People: First Experiences with Designing a Patient Communication System (PACOSY) ............................................................... 33
  Andreas Holsinger

The Disappearing Computer: Emerging Opportunities and Challenges for Disabled and Elderly People ................................ 41
  Constantine Stephanidis
# Table of Contents

New Technologies and Services for Disabled and Elderly People in the Emerging Information Society ................................. 49
  *Pier Luigi Emiliani*

A Strategy to Achieve the Accessibility of Public Web Sites .............. 58
  *Sylvie Duchateau, Denis Boulay, Claudine Tchang-Ayo, Dominique Burger*

Accessibility and Affordance for Voice Interactive Systems with the VoiceXML Technology ......................................... 61
  *Régis Privat, Nadine Vigouroux, Philippe Truillet, Bernard Oriola*

## Computer and Inclusive Education

Computer and Inclusive Education ........................................... 64
  *Ewald Feyerer*

National Information and Communication Technology Policies – Their Impact upon the Use of ICT in Special Needs Education (SNE) ... 68
  *Amanda Watkins, Harald Weber*

EUN Virtual School Special Needs Education ............................. 76
  *Walter Rainwald*

Tutorial Systems to Teach Standard Applications to the Learning Disabled ................................................................. 83
  *Michael Pieper*

The Vickie Project ..................................................................... 90
  *Dominique Archambault, Dominique Burger*

Using Adaptive Hypermedia to Evaluate Basic Arithmetic Skills in Special Education ......................................................... 98
  *Jaakko Kurhila, Hanna Varjola*

ICT and Assistive Technology in Teachers Education and Training ...... 107
  *Ewald Feyerer, Klaus Miesenberger, David Wohlhart*

Bridging the Information Gap between IST and SEN –
A Practical Approach on European Level .................................... 115
  *Jørgen Greve, Harald Weber*

Evaluational Study: Training with Animated Pedagogical Agents ........ 117
  *Yehya Mohamad, S. Hammer, F. Haverkamp, M. Nöker, H. Tebarth*

  *Barbara Prazak, Mathilde Niehaus*
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Innovation in the Information Society – Take It Easy</td>
<td>128</td>
</tr>
<tr>
<td><strong>Cordula Edler</strong></td>
<td></td>
</tr>
<tr>
<td>ODL: Inclusive – Improving Inclusive Teaching through Online Training</td>
<td>130</td>
</tr>
<tr>
<td><strong>David Wohlhart</strong></td>
<td></td>
</tr>
<tr>
<td>Accessible E-learning: Infrastructure and Content</td>
<td>133</td>
</tr>
<tr>
<td><strong>Norman Coombs</strong></td>
<td></td>
</tr>
<tr>
<td>Addizionario: Words in Your Pocket</td>
<td>136</td>
</tr>
<tr>
<td><strong>Giovanna Turrini, Laura Cignoni, Alessandro Paccasi</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Virtual Reality</strong></td>
<td></td>
</tr>
<tr>
<td>Virtual Travel Training for People with Learning Disabilities</td>
<td></td>
</tr>
<tr>
<td>Accessing Employment Including the Introduction to the Special Thematic Session “Virtual Reality”</td>
<td>140</td>
</tr>
<tr>
<td>N. Shopland, J. Lewis, D.J. Brown, H.M. Powell</td>
<td></td>
</tr>
<tr>
<td>Assessing Virtual Reality as a Tool for Support Imagination</td>
<td>143</td>
</tr>
<tr>
<td>Literacy and Numeracy Edutainment Packages for Disaffected Young Learners</td>
<td>145</td>
</tr>
<tr>
<td>D.J. Brown, M. Yazdanparast, J. Lewis, N. Shopland, H.M. Powell</td>
<td></td>
</tr>
<tr>
<td>Control of Virtual Environments for People with Intellectual Disabilities</td>
<td>147</td>
</tr>
<tr>
<td>P.J. Standen, S. Battersby, T.L. Lannen</td>
<td></td>
</tr>
<tr>
<td>Online Gardening to Promote Social Inclusion</td>
<td>150</td>
</tr>
<tr>
<td>S.J. Battersby, N. Kelly, D.J. Brown, H.M. Powell</td>
<td></td>
</tr>
<tr>
<td><strong>Hearing Impaired People – Computers and Communication</strong></td>
<td></td>
</tr>
<tr>
<td>Selective Phoneme Spotting for Realization of an /s, z, C, t/</td>
<td>153</td>
</tr>
<tr>
<td>Transposer</td>
<td></td>
</tr>
<tr>
<td>D. Bauer, A. Plinge, M. Finke</td>
<td></td>
</tr>
<tr>
<td>A Multimedia Based Software for Non-Japanese to Learn Japanese</td>
<td>162</td>
</tr>
<tr>
<td>Sign Language</td>
<td></td>
</tr>
<tr>
<td>Flavio Oliveira, Iwao Kobayashi, Mitsumasa Sugawara</td>
<td></td>
</tr>
<tr>
<td>The User Interface Design for the Sign Language Translator in a</td>
<td>164</td>
</tr>
<tr>
<td>Remote Sign Language Interpretation System</td>
<td></td>
</tr>
<tr>
<td>Hiroki Minagawa, Ichiro Naito, Nobuko Kato, Hiroshi Murakami, Yasushi Ishihara</td>
<td></td>
</tr>
</tbody>
</table>
# Table of Contents

The See-through Head Mount Display as the Information Offering Device for the Hearing Impaired Students ........................................ 166  
*Tomoyuki Nishioka*

Digital Speech Signal Processing to Compensate Severe Sensory Hearing Deficits: The /s, z, C, t/ Transposer Module in Simulation – An Overview and Examples ........................................ 168  
*D. Bauer, A. Plinge, M. Finke*

## Computers for the Development of Young Disabled Children

Computers for the Development of Young Disabled Children ............. 170  
*Dominique Archambault*

Multimedia Games for Visually Impaired Children ................................. 173  
*Aurélie Buaud, Harry Svensson, Dominique Archambault, Dominique Burger*

Technical Assistance for Motor- and Multiple Disabled Children – Some Long Term Experiences .............................................. 181  
*Paul Panek, Christian Beck, Stefan Mina, Gottfried Seisenbacher, Wolfgang L. Zagler*

The Design of an Adaptive Web Browser for Young Children with Reading Difficulties ......................................................... 189  
*Chi Nung Chu, Tien Yu Li, Ming Chung Chen*

Can All Young Disabled Children Play at the Computer? .................... 191  
*Anita Hildén, Jenny Hammarlund*

TL a Language to Create Games for Visually Impaired Children .......... 193  
*Antoine Dutot, Damien Olivier, Dominique Archambault*

## Mobility Impaired People – Individual Autonomy and HCI

Power Assist System HAL-3 for Gait Disorder Person ....................... 196  
*Hiroaki Kawamoto, Yoshiyuki Sankai*

*Ting-Fang Wu, Ling-Fu Meng, Hwa-Pey Wang, Wu-Tien Wu, Tien-Yu Li*

A Proposal of Effective Motion Learning Method Using Sensory Feedback for Walk-Disabled People ........................................ 212  
*Junji Ohyama, Yoshiyuki Sankai*
Control Method of Walking Speed and Step Length for Hybrid Assistive Leg ...................................................... 220
Masako Nozawa, Yoshiyuki Sankai

The Development of Gait Training System for Computer-Aided Rehabilitation .................................................... 228
Hidetaka Ikeuchi, Satoshi Arakane, Kengo Ohnishi, Keiji Imado, Yukio Saito, Hiroomi Miyagawa

Accessing Internet Courses by Eye Movement and Head Movement ........ 236
James Gips, Philip A. DiMattia, Marialice Curran, Debra Lees, Maureen Gates

The Program for Improving the Working Interfaces and Increasing the Work Competencies of People with Severe Physical Disabilities: The Evaluation, Design, and Training of the Adaptive Computer Devices ..... 238
Tien-yu Li, Ling-Fu Meng, Chien-Hueg Sophie Chang, Ming-Chung Chen, Chi-Nung Chu, Arr-Ming Chou, Tong Yang, Chin-Chen Hui, Ai-Chiao Ku, Yun-Lung Lin

Typing – Alternative and Augmentative Communication

Matching Typing Persons and Intelligent Interfaces ......................... 241
Wolfgang L. Zagler

FASTY – A Multi-lingual Approach to Text Prediction ...................... 243
Johannes Matiaszek, Marco Baroni, Harald Trost

Informing Flexible Abbreviation Expansion for Users with Motor Disabilities.................................................................. 251
Tim Willis, Helen Pain, Shari Trewin, Stephen Clark

Cyclic Input of Characters through a Single Button Manipulation ....... 259
Grigori Erevinov, Roope Raisamo

Developing of Predictive Communication System for the Physically Disabled People.......................................................... 267
Vidas Lauruska, Tomas Musteikis

Teaching Adolescents with Disabilities to Learn Chinese Keyboarding by Using Multimedia Computer Assisted Input Method Learning System ........................................................................ 271
Ming-Chung Chen, Hwa-Pey Wang, Tien-Yu Li

Accelerating Assessment with Self-Optimizing Devices .................. 273
Shari Trewin, Patti Slobovin, M.G. Power
A Proposal of an Evaluation Framework for Writing Assistance Systems: Application to VITIPI ........................................ 276
Philippe Boissière, Daniel Dours

Individually Assisted Text Entry with Situational and Contextual Prediction ................................................................. 279
Dirk Clemens, Helmut Heck, Michael Kühn, Olaf Perlick, Frank Reins

Accessible Digital Media

Accessible Digital Media .......................................................... 282
Deborah I. Fels

Methods for Inclusion: Employing Think Aloud Protocol with Individuals Who Are Deaf ........................................ 284
Vera Roberts, Deborah I. Fels

Emotive Captioning in a Digital World ........................................ 292
Charles Silverman, Deborah I. Fels

Spoken Subtitles: Making Subtitled TV Programmes Accessible .......... 295
Maarten Verboom, David Crombie, Evelien Dijk, Mildred Theunisz

Electronic and Virtual Libraries: Access for Print Disabled People

Electronic and Virtual Libraries: Access for Print Disabled People ...... 308
Jan Engelen, Dominique Burger

Semantically Rich Markup, Should You Be Agnostic in Your Choice of a Vocabulary ......................................................... 312
George Kerscher

DZB – A German Library for the Blind Goes Digital ...................... 316
Thomas Kahlisch

Harmonisation of the Copyright Law throughout the European Union – A Challenge for All Print Disabled People ................. 321
Ruth Hammerschmid, Klaus Miesenberger, Bernhard Stöger

A Distributed Document Oriented Architecture for Rendering Services to Visually Impaired Students ................................. 329
Claude Moulin, Sylvain Giroux, Dominique Archambault, Davide Carboni, Dominique Burger
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABA's Virtual Library Services for Blind and Visually Impaired</td>
<td>337</td>
</tr>
<tr>
<td>Karim Taha, Lori Stefano Pertucci</td>
<td></td>
</tr>
<tr>
<td>Libbraille: A Portable Library to Easily Access Braille Displays</td>
<td>345</td>
</tr>
<tr>
<td>Sébastien Sablé, Dominique Archambault</td>
<td></td>
</tr>
<tr>
<td>CYNTHIA: An HTML Browser for Visually Handicapped People</td>
<td>353</td>
</tr>
<tr>
<td>Mathieu Raynal, Mathieu Serrurier</td>
<td></td>
</tr>
<tr>
<td>A Secure Internet Service for Delivering Documents for the Blind</td>
<td>360</td>
</tr>
<tr>
<td>Benoit Guillon, Dominique Burger, Bruno Marmol</td>
<td></td>
</tr>
<tr>
<td>Virtual Libraries Initiatives with Usable Results for Print Disabled People</td>
<td>366</td>
</tr>
<tr>
<td>Marco Köttstorfer, Klaus Miesenberger</td>
<td></td>
</tr>
<tr>
<td>Unlocking Doors: Building an Accessible Online Information Node</td>
<td>374</td>
</tr>
<tr>
<td>David Crombie, Arne Leeman, Marian Oosting, Maarten Verboom</td>
<td></td>
</tr>
<tr>
<td>Using XML as a Reading Enabler for Visually Impaired Persons</td>
<td>382</td>
</tr>
<tr>
<td>Bert Paepen, Jan Engelen</td>
<td></td>
</tr>
<tr>
<td>The Accessibility of Online Library Resources for People with Print Disabilities: Research and Strategies for Change</td>
<td>390</td>
</tr>
<tr>
<td>Axel Schmetzke</td>
<td></td>
</tr>
<tr>
<td>Quick Access to Dictionaries for Blind and Visually Impaired People</td>
<td>398</td>
</tr>
<tr>
<td>Brasseur Vincent, Mohamed Slimane, Nicole Vincent, Dominique Burger</td>
<td></td>
</tr>
<tr>
<td>Perspectives and Possibilities for the Automated Processing of</td>
<td>401</td>
</tr>
<tr>
<td>Scientific Texts for Blind and Visually Impaired People</td>
<td></td>
</tr>
<tr>
<td>Gerhard Jaworek</td>
<td></td>
</tr>
<tr>
<td>Universal Usability Issues of Textual Information Structures, Commands, and Languages of Native Visually Challenged Users:</td>
<td>403</td>
</tr>
<tr>
<td>An Inclusive Design Framework</td>
<td></td>
</tr>
<tr>
<td>Basawaraj Patil, Klaus Maetzel, Erich J. Neuhold</td>
<td></td>
</tr>
<tr>
<td>Accessible Interface Design: Adaptive Multimedia Information System (AMIS)</td>
<td>406</td>
</tr>
<tr>
<td>Marisa DeMeglio, Markku T. Hakkinen, Hiroshi Kawamura</td>
<td></td>
</tr>
<tr>
<td>Reading Multimedia Documents</td>
<td>413</td>
</tr>
<tr>
<td>Helen Petrie, Gerhard Weber</td>
<td></td>
</tr>
</tbody>
</table>
## Table of Contents

**Blind and Visually Impaired People – Mobility and HCI**

Comparison of Various Interface Modalities for a Locomotion Assistance Device .................................................. 421  
*Yacine Bellik, René Parcy*

Providing Help for Visually Impaired People’s Navigation in an Urban Environment Using GPS ........................................ 429  
*Vivien Guillet, Beatrice Rumpler, Jean-Marie Pinon*

New Trends and Developments in Computer and Internet Technology for Visually Impaired People: A Survey and Usefulness in the Arab Sub-region .......................................................... 437  
*AbdulMalik S. Al-Salman*

Auditory Emotional Access to Visual Information .............................. 445  
*Harald Schwende*

Auditory Sensation Aided Image Perception: Integration of Somesthetic Sense of Fingertip Position ........................................... 448  
*Yoshihiko Nomura, Sayuri Nishihama, Tokuhiro Sugiura, Hirokazu Matsui, Norihiko Kato*

A Novel Application to Aid Low Vision Computer Users ................. 455  
*Luciano Silva, Olga Regina Pereira Bellon*

Visually Impaired Persons Using Microsoft PowerPoint Presentations . 463  
*Martin Jung, Erdmuthe Meyer zu Bexten*

Using MS Office Features as Low Vision Accessibility Tools ............. 469  
*Deborah Gilden*

## Access to Mathematics by Blind Students

Access to Mathematics by Blind Students ................................... 471  
*Arthur I. Karshmer, Chris Bledsoc*

Architecting an Auditory Browser for Navigating Mathematical Expressions ........................................................................ 477  
*Arthur I. Karshmer, Gopal Gupta, Doug Gillan*

REMathEx – Reader and Editor of the Mathematical Expressions for Blind Students ............................................................ 486  
*Pavel Gaura*

Speaking Technical Documents: Using Prosody to Convey Textual and Mathematical Material ............................................. 494  
*D. Fitzpatrick*
Access by Blind Students and Professionals to Mainstream Math and Science .......................... 502
John A. Gardner

\LaTeX{} at the University of Applied Sciences Giessen-Friedberg
– Experiences at the Institute for Visually Impaired Students ............. 508
Erdmuthe Meyer zu Bexten, Martin Jung

Experience with Access to Mathematics for Blind Students in Slovakia ..... 510
Martina Kobolíková, Peter Lecky

Infty Alpha Test Site ............................................ 512
Kanahori Toshihiro, Suzuki Masakazu

Designing an AutoMouse to Promote Computer Accessibility for People with Severe Physical Impairments ......................... 514
Ming Chung Chen, Tien Yu Li, Chi Nung Chu, Ling Fu Meng, Chien-Huey Sophie Chang, Arr Mien Chou, Tony Yang, Chih Chen Hui, Ai Chiao Ku, Yun Lung Lin

**Blind People – Tactile Graphics, Displays, and HCI**

Evaluation of Long Descriptions of Statistical Graphics for Blind and Low Vision Web Users.............................................. 517

A Tactile Display System Equipped with a Pointing Device – MIMIZU ... 527
Makoto Kobayashi, Tetsuya Watanabe

Preparing Tactile Graphics for Traditional Braille Printers with BrlGraphEditor ............................................................ 535
Mario Batusic, Franz Urban

TeDUB: A System for Presenting and Exploring Technical Drawings for Blind People ...................................................... 537
Helen Petrie, Christoph Schlüter, Paul Blenkhorn, Gareth Evans, Alasdair King, Anne-Marie O’Neill, George T. Ioannidis, Blaithin Gallagher, David Crombie, Rolf Mager, Maurizio Alafaci

Improvement of User Interface for Blind PC Users ..................... 540
Yutaka Shimizu, Masami Shinohara, Hideji Nagaoka, Yasushige Yonezawa

**Haptic and Audio Interfaces and Virtual Reality for Blind and Partially Sighted People**

Haptic Perception of 2D Pictures and 3D Objects: Accurate Mental Representation as a Function of Visual Status ....................... 543
Helen Graupp, Keith Gladstone, Leanne Thompson
Microelectrical Mechanical Systems Actuator Array for Tactile Communication ........................................ 551
   Eniko T. Enikov, Kalin V. Lazarov, Gilbert R. Gonzales
Designing Interactive Tactile Diagrams ........................................ 559
   Ben Challis
3D Audio in the 21st Century ........................................ 562
   Damian T. Murphy, Michael C. Kelly, Anthony I. Tew
Going Places with “KnowWare”: Virtual Reality Maps for Blind People... 565
   Myron W. Krueger, Deborah Gilden

Blind People – Human Computer Interaction

Mental Models of Blind Users in the Windows Environment ............ 568
   Sri Hastuti Kurniawan, Alistair Sutcliffe
An Approach to Producing New Languages for Talking Applications for Use by Blind People........................................ 575
   D.G. Evans, K. Polyzoaki, P. Blenkhorn
User Requirements for Technologies for Personal Communication and Information Use for Deafblind People........................................ 583
   Wendy Fisher, Helen Petrie
Project IPSIS – Web Portal and Linux for the Blind.................... 585
   Danko Butorac
An Analysis of Layout Errors in Word Processed Documents Produced by Blind People........................................ 587
   T. Diggle, S. Kurniawan, D.G. Evans, P. Blenkhorn
Windows Screen Reader User Survey in Japan .......................... 589
   Tetsuya Watanabe, Chuji Sashida, Shinichi Okada
Tools for Creating Documents in ‘Preferred Format’ for Visually Impaired People ........................................ 591
   D.G. Evans, P. Blenkhorn

Blind People – Braille Printing

Braille Printing System ........................................ 594
   Shunsuke Hara, Ryoko Kawamitsu, Kanako Kusunoki, Hiroshi Sato, Mamoru Fujigoshi
Braille Contractions in WinBraille ........................................ 602
   Mats Blomquist
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Braille to Text Translation for Hungarian</td>
<td>610</td>
</tr>
<tr>
<td>Andras Arato, Theresa Vaspori, Gareth Evans, Paul Blenkhorn</td>
<td></td>
</tr>
<tr>
<td>The WinBraille Approach to Producing Braille Quickly and Effectively</td>
<td>618</td>
</tr>
<tr>
<td>Mats Blomquist, Per Burman</td>
<td></td>
</tr>
<tr>
<td><strong>People with Disabilities – Daily Living</strong></td>
<td></td>
</tr>
<tr>
<td>Haptic Device System for Upper Limb Motor Function and Cognitive</td>
<td>620</td>
</tr>
<tr>
<td>Yoshiyuki Takahashi, Takafumi Teruda, Kaoru Inoue, Satoshi Susada,</td>
<td></td>
</tr>
<tr>
<td>Takashi Komeda</td>
<td></td>
</tr>
<tr>
<td>Networking for Accessibility: Elderly People and New Technology</td>
<td>628</td>
</tr>
<tr>
<td>Sirkku Männikkö-Barbutiu</td>
<td></td>
</tr>
<tr>
<td>Tele-Help and Remote Service Provision Using</td>
<td>635</td>
</tr>
<tr>
<td>Paul Panek, Christian Beck, Andreas Hochgatterer, Stefan Mina,</td>
<td></td>
</tr>
<tr>
<td>Barbara Prazak, Gottfried Seisenbacher, Mathijs Soede, Wolfgang L.</td>
<td></td>
</tr>
<tr>
<td>Zagler</td>
<td></td>
</tr>
<tr>
<td>Making Yourself at Home – Portable Personal Access Preferences</td>
<td>643</td>
</tr>
<tr>
<td>Jutta Treviranus</td>
<td></td>
</tr>
<tr>
<td>EU Project SILC – Personal Bio-Sensor Based Alarm System</td>
<td>649</td>
</tr>
<tr>
<td>Peter Mayer, Georg Edelmayer, Wolfgang L. Zagler</td>
<td></td>
</tr>
<tr>
<td>Videophones: Useful Assistive Devices for Visually Impaired Persons?</td>
<td>657</td>
</tr>
<tr>
<td>Morten Tollefsen, Magne Lunde</td>
<td></td>
</tr>
<tr>
<td>HMPH – “Habitat Mobile pour Personnes Handicapées” – Software for the</td>
<td>659</td>
</tr>
<tr>
<td>Design of an Adapted Living Area</td>
<td></td>
</tr>
<tr>
<td>Jérôme Leloup, Pierre Gaucher</td>
<td></td>
</tr>
<tr>
<td>“Bonkers”. Increasing Literacy Skills: An Eclectic Electronic</td>
<td>662</td>
</tr>
<tr>
<td>Teaching Approach Gone &quot;Bonkers&quot;</td>
<td></td>
</tr>
<tr>
<td>Diana P. James</td>
<td></td>
</tr>
<tr>
<td><strong>Access Music</strong></td>
<td></td>
</tr>
<tr>
<td>Access Music</td>
<td>665</td>
</tr>
<tr>
<td>Ben Challis</td>
<td></td>
</tr>
<tr>
<td>Spoken Music: Enhancing Access to Music for the Print Disabled</td>
<td>667</td>
</tr>
<tr>
<td>David Crombie, Sijo Dijkstra, Edmar Schut, Natasha Lindsay</td>
<td></td>
</tr>
<tr>
<td>A Music Score Recogniser for the Blind</td>
<td>675</td>
</tr>
<tr>
<td>Angelo Da Ronch, Adriano Blason</td>
<td></td>
</tr>
</tbody>
</table>
XX Table of Contents

Visualization of Music Notation for Partially Sighted Persons ............ 682
  Tatiana Evreinova, Roope Raisamo

Accessing the Software Studio ........................................... 684
  Damian T. Murphy, Mark A. Hildred

People with Disabilities – Political, Legal, and Individual Aspects

Opening Doors to Information Technology – Section 508 of the US
Rehabilitation Act of 1973 ..................................................... 686
  Helen Chamberlain

  Zachariah Cameron

An Open Machine Translation System for Augmentative and
Alternative Communication .................................................. 699
  Constantinos Viglas, Georgios Kouropetroulou

Capabilities and Limitations of the Disabled in Remote Access to
Information ............................................................................. 707
  Ryszard Kowalik

IMPACT: An Example of Information, Awareness, and Legislation,
Leading toward a More Accessible Workplace .......................... 709
  Charmaine Mueller Iversen

IT-Certificates to Foster the Vocational Integration of People with Disabilities: ECDL® PD

IT-Certificates to Foster the Vocational Integration of People
with Disabilities: ECDL® PD ..................................................... 712
  Andrea Petz, Denise Leahy

ECDL for Visually Impaired Persons: Learning Materials,
Individual Training, and Distance Education ........................... 715
  Morten Tollefsen, Magne Lunde

ECDL® PD – Using a Well Known Standard to Lift Barriers on the
Labour Market ................................................................. 723
  Andrea Petz, Klaus Miesenberger

KISS – Keep It Short and Simple? ............................................ 731
  Andrea Petz

Many Ways to ECDL ................................................................ 734
  Magne Lunde, Morten Tollefsen
Studying and Academic Mobility – IT Support for People with Disabilities

Studying and Academic Mobility – IT Support for Students with Disabilities ........................................................ 737
Joachim Klaus

Developing Academic Skills among Print Disabled Students:
IT Based Austrian-Wide Network for Service Provision ................. 739
Andrea Petz, Klaus Miesenberger, Bernhard Stöger

Access to Learning for All .................................................. 747
Mirela Arion, Radu Ciupa, Marius Iulian Tutuianu

The Evolving Door: Providing Technology Access for Post-secondary Students in a Constantly Changing Technology-Based Culture ........... 749
Janice Hecht, Bogdan Zamfir

Taking Assistive Technology to the Highest Degree ..................... 751
Todd Schmiedl, S.L. Dyser

Learning from Each Other: Comparing the Service Provision for Blind and Visually-Impaired Students in Post-secondary Education in Japan and Europe ................................................. 753
Hiroshi Katoh, Martin Pauly, Shunsuke Hara, Hideji Nagaoka, Klaus Miesenberger

How Accessible Are Web Information Resources for Students with Disabilities? .................................................. 756
Sri H. Kurniawan

Providing Assistive Technology and Alternate Media in Community Colleges: A Case Study .............................................. 758
Calais Roussel

International Collaboration to Improve Assistive Technology Outcomes

International Collaboration to Improve Assistive Technology Outcomes . . 761
Marcia J. Scherer

The Study of Assistive Technology Outcomes in the United States ....... 764
Marcia J. Scherer

Future Challenges in AT Outcome Measurement .......................... 772
Luc P. de Witte, G.J. Gelderblom, R.D. Wessels

European Instruments for Assistive Technology Outcome Assessment . . . 777
G.J. Gelderblom, L.P. de Witte, R.D. Wessels
XXII  Table of Contents

Implementing Outcomes Measurement in an Assistive Technology Service Delivery System ............................................ 782
  Gerald Craddock

Author Index .......................................................... 791
Computers Helping People with Special Needs
8th International Conference, ICCHP 2002, Linz, Austria,
July 15-20, Proceedings
Miesenberger, K.; Klaus, J.; Zagler, W. (Eds.)
2002, DCCCXXVIII, 806 p., Softcover
ISBN: 978-3-540-43904-2