

PREMIER REFERENCE SOURCE

TECHNOLOGY ENHANCED LEARNING FOR PEOPLE WITH DISABILITIES

Approaches and Applications



Patricia Ordóñez de Pablos, Jingyuan Zhao & Robert Tennyson

Table of Contents

Preface	xiv
 Chapter 1	
Benefits of CSCL for Learners with Disabilities	1
<i>Robert D. Tennyson, University of Minnesota, USA</i>	
<i>Robert L. Jorczak, University of Minnesota, USA</i>	
 Chapter 2	
Computer Interventions for Children with Disabilities: Review of Research and Practice	10
<i>Robert D. Tennyson, University of Minnesota, USA</i>	
 Chapter 3	
China Special Education: The Perspective of Information Technologies	34
<i>Jingyuan Zhao, Harbin Institute of Technologies, China</i>	
 Chapter 4	
Learning Applications for Disabled People	44
<i>Athanasios Drigas, N.C.S.R. Demokritos, Greece</i>	
<i>Dimitris Kouremenous, N.C.S.R. Demokritos, Greece</i>	
<i>John Vrettaros, N.C.S.R. Demokritos, Greece</i>	
 Chapter 5	
A Paradigm in Transition: From a Teaching Focused Education to a Learning One—The ICT Contribution to the Acquisition of Social and Individual Skills in High Education.....	58
<i>Pablo Murta Baião Albino, Universidad Pública de Navarra, Spain</i>	
<i>Fernando González Gatica, Universidad Diego Portales, Chile</i>	
<i>José Enrique Armendáriz-Iñigo, Universidad Pública de Navarra, Spain</i>	

Chapter 6

Personal Learning Environments: Meeting the Special Needs of Gifted Students	67
--	----

Jaime Ribeiro, University of Aveiro, Portugal

Diogo Casanova, University of Aveiro, Portugal

Fernanda Nogueira, University of Aveiro, Portugal

António Moreira, University of Aveiro, Portugal

Margarida Almeida, University of Aveiro, Portugal

Chapter 7

Automatic Speech Recognition to Enhance Learning for Disabled Students.....	89
---	----

Pablo Revuelta, Universidad Carlos III de Madrid, Spain

Javier Jiménez, Universidad Carlos III de Madrid, Spain

José M. Sánchez, Universidad Carlos III de Madrid, Spain

Belén Ruiz, Universidad Carlos III de Madrid, Spain

Chapter 8

School of the Future: E-Tools and New Pedagogies to Build Up and Inclusive Learning

Community	105
-----------------	-----

Michela Otta, Consiglio Nazionale delle Ricerche, Italy

Chapter 9

Public Information Services for People with Disabilities: An Accessible Multimedia

Platform for the Diffusion of the Digital Signature	121
---	-----

Ángel García-Crespo, Universidad Carlos III de Madrid, Spain

Fernando Paniagua-Martín, Universidad Carlos III de Madrid, Spain

José Luis López-Cuadrado, Universidad Carlos III de Madrid, Spain

Israel González Carrasco, Universidad Carlos III de Madrid, Spain

Ricardo Colomo-Palacios, Universidad Carlos III de Madrid, Spain

Juan Miguel Gómez-Berbís, Universidad Carlos III de Madrid, Spain

Chapter 10

Elderly People with Disabilities in the Internet Age.....	137
---	-----

Panagiotis Kyriazopoulos, Technological Educational Institute of Piraeus, Greece

Irene Samanta, Technological Educational Institute of Piraeus, Greece

Rania Christou, Technological Educational Institute of Piraeus, Greece

Anastasios Ntanos, Technological Educational Institute of Piraeus, Greece

Chapter 11

Supports for and Barriers to Implementing Assistive Technology in Schools	154
---	-----

Susanne Croasdaile, Virginia Commonwealth University, USA

Sharon Jones, Virginia Commonwealth University, USA

Kelly Ligon, Virginia Commonwealth University, USA

Linda Oggel, Virginia Commonwealth University, USA

Mona Pruett, Virginia Commonwealth University, USA

Chapter 12

Theory of Mind in Autistic Children: Multimedia Based Support	167
---	-----

Tariq M. Khan, Brunel University of West London, UK

Chapter 13

M-Learning: Accessibility and Limitations for People with Disabilities	180
--	-----

Saif alZahir, University of Northern British Columbia, Canada

Chapter 14

Applying Virtual Reality (VR) to the Detection and Treatment of Clinical	
--	--

Problems in Educational Settings	194
--	-----

José A. Carmona, University of Almería, Spain

Adolfo J. Cangas, University of Almería, Spain

Luis Iribarne, University of Almería, Spain

Moisés Espínola, University of Almería, Spain

Compilation of References	203
---------------------------------	-----

About the Contributors	225
------------------------------	-----

Index.....	233
------------	-----