

Contents

SenseMath – Blind Students Making Sense of Math WENDY VOORN	7
Framework for Young Researchers in the Area of Participation through Technology and Media CHRISTIAN BÜHLER	13
A Multilingual Interactive Workspace for Helping the Visually Impaired Learn and Practice Algebra SALMA GHALI, ISLAM ELKABANI, RACHED ZANTOUT	21
A Learning System for Environmental Sounds on Tablets: Toward a Teaching Resource for Deaf and Hard of Hearing Children RUMI HIRAGA, YUU KATO, MASAKI MATSUBARA, HIROKO TERASAWA, KEI TABARU	31
A Complete Environment for Deaf Learner Support in the Context of Mainstream Education ELENI EFTHIMIOU, STAVROULA-EVITA FOTINEA, THEODORE GOULAS, PANOS KAKOULIDIS, ATHANASIA-LIDA DIMOU, ANNA VACALOPOULOU	35
Evaluation of Mathematical Information Created by a Text-Based Communication Tool for Visually Handicapped YUKI TOYOSAKA, YUKI OGINO, RYOJI FUKUDA	45
The Journey of Making Information for Learning Accessible for All ISABELLE TURMAINE, MARCELLA TURNER-CMUCHAL	53
“Förderwolke” A Cloud-based Exchange Platform of the Faculty of Rehabilitation Sciences at the TU Dortmund for the Qualitative Enhancement and Improvement of Inclusive Education HANNA LINKE	61
A Technological Proposal to Support Music Education Shared between Blind and Sighted Students JOSÉ ANTONIO BORGES, DOLORES TOMÉ, ANA MARGARIDA ALMEIDA, ARMANDO MALHEIRO DA SILVA	63
Web Guide to Physical Accessibility of Buildings SVATOSLAV ONDRA, PETR ČERVENKA, MICHAELA HANOUSKOVÁ, KAREL SOBOL	73
Bebras IT Contest for Blind Pupils – Universal Design of Tasks LUDMILA JAŠKOVÁ, NATÁLIA KOVÁČOVÁ	79
LUDI Database of Technology Based Play Experiences with Children with Disabilities DIOGO AZEVEDO, TÂNIA ROCHA, RIANNE JANSSENS, ANDREA BONARINI, HUGO PAREDES, JOÃO BARROSO	89

Is Play Easier for Children with Physical Impairments with Mainstream Robots? Accessibility Issues and Playfulness

S. BESIO, A. BONARINI, D. BULGARELLI, M. CARNESECCHI,
C. RIVA, F. VERONESE

97

Caregivers' Support for Children with Motor Impairments in Robot-mediated Play Contexts. A Case Study for the Investigation of Adult/child Relationship in Supporting Play Development

SERENELLA BESIO, MARCO CARNESECCHI

109

Professionals View on IROMEC Play Sessions for Children with Severe Physical Disabilities

RENÉE VAN DEN HEUVEL, MONIQUE LEXIS, RIANNE JANSSENS,
LUC DE WITTE

115