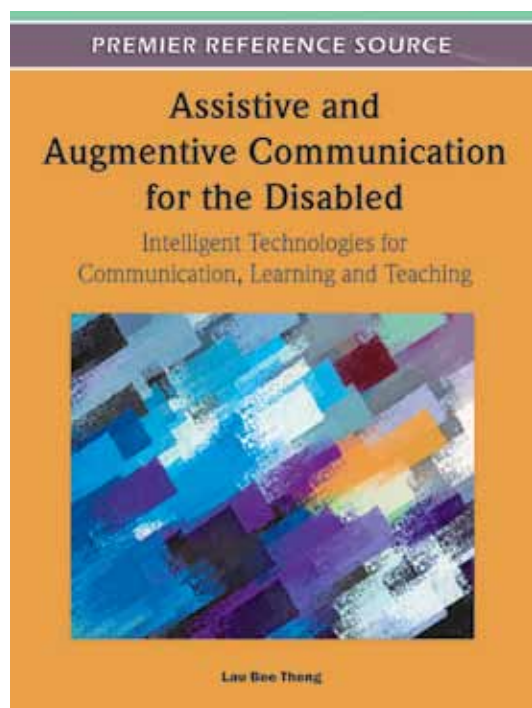


# An Excellent Addition to Your Library!

Released: May 2011

## Assistive and Augmentive Communication for the Disabled: Intelligent Technologies for Communication, Learning and Teaching



Lau Bee Theng (Swinburne University of Technology, Malaysia)

Assistive and augmentive communication is an emerging research area receiving much support from the disabled community. It enables communication for those with impairments or restrictions on the production or comprehension of spoken or written language.

**Assistive and Augmentive Communication for the Disabled: Intelligent Technologies for Communication, Learning and Teaching** provides benefits to the professionals and researchers working in various disciplines in the field, such as special education, healthcare, computational intelligence and information technology. Moreover, this book provides insights and support to individuals who are concerned with the development of children and adults with disabilities. It covers recently completed studies, as well as ongoing research, to provide a cutting-edge window into this area of promising, new applications.

### Topics Covered:

- Collaboration
- Blended Learning
- 3D Assistive Technologies
- Assisting Social Skills
- Face Based Real Time Communication
- ICT to Assist Visually Impaired People
- Assisting Children with Cerebral Palsy
- Spatial Knowledge Communication
- Statistical Analysis of Facial Expression
- Wireless Healthcare Monitoring System

ISBN: 9781609605414; © 2011; 344 pp.

Print: US \$180.00 | Perpetual: US \$255.00 | Print + Perpetual: US \$360.00

**Market:** This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

**Lau Bee Theng** is a senior lecturer at Swinburne University of Technology Sarawak Campus. She obtained her PhD from Universiti Malaysia Sarawak in 2005. Her research interests are in the areas of assistive and alternative tools for communication and learning mainly focus on disabled children. She has authored several papers in refereed journals and international conferences.

#### Chapter 1

*2D Animated Social Story for Assisting Social Skills Learning of Children with Autism Spectrum Disorder*

Mandasari Vivi (Swinburne University of Technology, Malaysia)

Lu Marlene Valerie (Swinburne University of Technology, Malaysia)

Theng Lau Bee (Swinburne University of Technology, Malaysia)

#### Chapter 2

*3D Assistive Technologies and Advantageous Themes for Collaboration and Blended Learning of Users with Disabilities*

Dafoulas Georgios (Middlesex University, UK)

Saleeb Noha (Middlesex University, UK)

#### Chapter 3

*A Face Based Real Time Communication for Physically and Speech Disabled People*

Ann Ong Chin (Swinburne University of Technology, Malaysia)

Lu Marlene Valerie (Swinburne University of Technology, Malaysia)

Theng Lau Bee (Swinburne University of Technology, Malaysia)

#### Chapter 4

*A Novel Application of Information Communication Technology to Assist Visually Impaired People*

Heng Tee Zhi (The University of Nottingham Malaysia Campus, Malaysia)

Minn Ang Li (The University of Nottingham Malaysia Campus, Malaysia)

Phooi Seng Kah (The University of Nottingham Malaysia Campus, Malaysia)

#### Chapter 5

*Collaborative Virtual Learning for Assisting Children with Cerebral Palsy*

Valeria Nia (Swinburne University of Technology, Malaysia)

Lu Marlene Valerie (Swinburne University of Technology, Malaysia)

Theng Lau Bee (Swinburne University of Technology, Malaysia)

#### Chapter 6

*Enabling Context Aware Services in the Area of AAC*

Lun Lau Sian (University of Kassel, Germany)

David Klaus (University of Kassel, Germany)

#### Chapter 7

*Spatial Knowledge Communication to Visually Challenged People*

Patel Kanubhai K. (Ahmedabad University, India)

Vij Sanjay Kumar (Sardar Vallabhbhai Patel Institute of Technology, India)

#### Chapter 8

*Statistical Analysis of Facial Expression on 3D Face Shapes*

Minoi Jacey-Lynn (Universiti Malaysia Sarawak, Malaysia)

Gillies Duncan (Imperial College London, UK)

#### Chapter 9

*The Role of Augmented E-Learning Systems for Enhancing Pro-Social Behaviour in Socially Impaired Individuals*

Bishop Jonathan (Glamorgan Blended Learning Ltd, UK)

#### Chapter 10

*The Outdoor Wireless Healthcare Monitoring System for Hospital Patients Based on ZigBee*

Xu Xiaoxin (Zhejiang University, China)

Wu Mingguang (Zhejiang University, China)

Sun Bin (China Jiliang University, China)

Zhang Jianwei (China Jiliang University, China)

Ding Cheng (HangZhou Meacon Automatic Technology Co., Ltd, China)

## Order Your Copy Today!

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

☐ Enclosed is check payable to IGI Global in  
US Dollars, drawn on a US-based bank

☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: \_\_\_\_\_

Name on Card: \_\_\_\_\_

Account #: \_\_\_\_\_

Expiration Date: \_\_\_\_\_