Contents

1 FlowagileXML: An HCI-Agile Methodology to Develop Interactive Systems for Children with Disabilities ........................................ 1
   Josefina Guerrero-García, Juan Manuel González-Calleros
   and Claudia González

Part I  Models

2 An Architectural Model to Design Graphical User Interfaces of Mobile Applications for Learning Problems in Basic Mathematics ......................................................... 31
   Jaime Muñoz-Arteaga, Miguel Ángel Ortiz Esparza,
   José Eder Guzmán Mendoza and Juana Canul Reich

3 Extension of a User Model for Promoting the Development of Applications to Support Auditory Rehabilitation ......................... 53
   David Céspedes-Hernández, Liliana Rodríguez-Vizzuett,
   Juan González-Calleros and Jaime Muñoz-Arteaga

Part II  Case Studies

4 Interactive Systems Design Oriented to Children with Special Needs ................................................................. 73
   Sandra Cano, Cristina Manresa-Yee, César A. Collazos,
   Victor Peñañory and Javier Varona

5 Model-Driven Development of Interactive Environments for Occupational Therapy .................................................. 91
   Héctor Cardona Reyes, Jaime Muñoz-Arteaga
   and Juan Manuel González-Calleros
6  Towards the Design of Interactive Storytelling
to Support Literacy Teaching for Deaf Children   115
   Leandro Flórez Aristizábal, Sandra Cano, Luz del Sol Vesga
   and César A. Collazos

7  Usability Study of Didactical Resources to Children
   with Down Syndrome                              127
   Pablo V. Torres-Carrión, Carina S. González-González
   and Alfonso Infante-Moro
HCI for Children with Disabilities
Guerrero-García, J.; González-Calleros, J.M.;
Muñoz-Arteaga, J.; Collazos, C.A. (Eds.)
2017, XII, 148 p. 69 illus., 64 illus. in color., Hardcover
ISBN: 978-3-319-55665-9