Preface

Successful interaction with products, tools, and technologies depends on usable designs and accommodating the needs of potential users without requiring costly training. In this context, this book is concerned with emerging ergonomics in design concepts, theories and applications of human factors knowledge focusing on the discovery, design and understanding of human interaction, and usability issues with products and systems for their improvement.

This book will be of special value to a large variety of professionals, researchers, and students in the broad field of human modeling and performance, who are interested in feedback of devices’ interfaces (visual and haptic), user-centered design, and design for special populations, particularly the elderly. We hope this book is informative, but even more that it is thought provoking. We hope it inspires, leading the reader to contemplate other questions, applications, and potential solutions in creating good designs for all. This book is organized into seven sections that focus on the following subject matters:

Section 1: Interface Design and Usability Evaluation
Section 2: User-Centered Design and Human Computer Interaction
Section 3: Accessibility and Ergonomics Modeling in Industry
Section 4: Smart Design and User Experience
Section 5: Ergonomic Evaluation and Design for All
Section 6: Heuristic Evaluation, Software and Service Design
Section 7: Usability and User Experience Applications

This book will be of special value to a large variety of professionals, researchers and students in the broad field of human–computer interaction, usability engineering, and user experience research, who are interested in feedback of devices’ interfaces (visual and haptic), user-centered design, and design for special populations, particularly the elderly.

Each section contains research paper that has been reviewed by members of the International Editorial Board. Our sincere thanks and appreciation to the board members as listed below:
Hanan A. Alnizami, USA
Wolfgang Friesdorf, Germany
S. Fukuzumi, Japan
Sue Hignett, UK
Wonil Hwang, S. Korea
Yong Gu Ji, Korea
Bernard C. Jiang, Taiwan
Ger Joyce, UK
Chee Weng Khong, Malaysia
Zhizhong Li, PR China
Nelson Matias, Brazil
Abbas Moallem, USA
Beata Mrugalska, Poland
Francisco Rebelo, Portugal
Valerie Rice, USA
Emilio Rossi, Italy
Javed Anjum Sheikh, Pakistan
Alvin Yeo, Malaysia
Wei Zhang, PR China

July 2017

Tareq Z. Ahram
Christianne Soares Falcão
Advances in Usability and User Experience
Proceedings of the AHFE 2017 International Conference on Usability and User Experience, July 17-21, 2017, The Westin Bonaventure Hotel, Los Angeles, California, USA
Ahram, T.; Falcão, C. (Eds.)
2018, XV, 711 p. 278 illus., Softcover
ISBN: 978-3-319-60491-6