

Preface

The discipline of Human Factors, Software, and Systems Engineering provides a platform for addressing challenges in human factors, software, and systems engineering that both pushes the boundaries of current research and responds to new challenges, fostering new research ideas. In this book, researchers, professional software & systems engineers, human factors and human systems integration experts from around the world addressed societal challenges and next-generation systems and applications for meeting them. The books address topics from evolutionary and complex systems, human systems integration to smart grid and infrastructure, workforce training requirements, systems engineering education, and even defense and aerospace. It is sure to be one of the most informative systems engineering events of the year.

This book focuses on the advances in the Human Factors, Software, and Systems Engineering, which are a critical aspect in the design of any human-centered technological system. The ideas and practical solutions described in this book are the outcome of dedicated research by academics and practitioners aiming to advance theory and practice in this dynamic and all-encompassing discipline. This book is divided into two main sections:

- I. Methods and Techniques
- II. Applications

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:

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We hope that this book, which is the international state of the art in human factors in software and systems engineering, will be a valuable source of theoretical and applied knowledge enabling human-centered design of variety of products, services, and systems for global markets.

July 2017

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Advances in Human Factors, Software, and Systems
Engineering
Proceedings of the AHFE 2017 International
Conference on Human Factors, Software, and Systems
Engineering, July 17-21, 2017, The Westin Bonaventure
Hotel, Los Angeles, California, USA
Ahram, T.Z.; Karwowski, W. (Eds.)
2018, X, 196 p. 62 illus., Softcover
ISBN: 978-3-319-60010-9