

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 and 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. This book addresses 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 the book are the outcome of dedicated research by academics and practitioners aiming to advance theory and practice in this dynamic and all-encompassing discipline. A total of four sections presented in this book. Each section contains research papers that have been reviewed by members of the International Editorial Board. Our sincere thanks and appreciation to the following Board members:

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We hope that this book, which is global and 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.

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