The present book includes extended and revised versions of a set of selected papers from the 13th International Joint Conference on e-Business and Telecommunications (ICETE 2016), held in Lisbon, Portugal, during July 26–28, 2016.

ICETE 2016 received 241 paper submissions from 51 countries, of which 14% are included in this book. The papers were selected by the event chairs and their selection is based on a number of criteria including the reviews and suggested comments provided by the Program Committee members, the session chairs’ assessments, and also the program chairs’ global view of all papers included in the technical program. The authors of selected papers were then invited to submit revised and extended versions of their papers having at least 30% new material.

ICETE 2016 was a joint conference aimed at bringing together researchers, engineers, scientists, and practitioners interested in information and communication technologies, including data communication networking, e-business, optical communication systems, security and cryptography, signal processing and multimedia applications, and wireless networks and mobile systems. These are the main knowledge areas that define the six component conferences, namely: DCNET, ICE-B, OPTICS, SECRIPT, SIGMAP, and WINSYS, which together form the ICETE joint international conference.

The papers selected and included in this book contribute to the understanding of relevant trends of current research in the areas of e-business and telecommunications, including wireless networks and technologies, mobile applications, speech recognition and data protection.

We would like to thank all the authors for their contributions and also the reviewers who helped ensure the quality of this publication. We also hope that you will find this collection of papers an excellent source of inspiration as well as a helpful reference for research in the aforementioned areas.

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