

Preface

This book contains a selection of papers accepted for presentation and discussion at The 2016 World Conference on Information Systems and Technologies (WorldCIST'16). This Conference had the support of the Federal Rural University of Pernambuco, IEEE Systems, Man, and Cybernetics Society, AISTI (Iberian Association for Information Systems and Technologies/Associação Ibérica de Sistemas e Tecnologias de Informação), and GIIM (Global Institute for IT Management). It took place at Recife, Pernambuco, Brazil, March 22–24, 2016.

The World Conference on Information Systems and Technologies (WorldCIST) is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences, and challenges of modern Information Systems and Technologies research, technological development and applications. One of its main aims is to strengthen the drive toward a holistic symbiosis between academy, society, and industry. WorldCIST'16 built on the successes of WorldCIST'13, held at Olhão, Algarve, Portugal, WorldCIST'14 held at Funchal, Madeira, Portugal, and WorldCIST'15 which took place at São Miguel, Azores, Portugal.

The Program Committee of WorldCIST'16 was composed of a multidisciplinary group of experts and those who are intimately concerned with Information Systems and Technologies. They have had the responsibility for evaluating, in a 'blind review' process, the papers received for each of the main themes proposed for the Conference: (A) Information and Knowledge Management; (B) Organizational Models and Information Systems; (C) Software and Systems Modeling; (D) Software Systems, Architectures, Applications and Tools; (E) Multimedia Systems and Applications; (F) Computer Networks, Mobility and Pervasive Systems; (G) Intelligent and Decision Support Systems; (H) Big Data Analytics and Applications; (I) Human–Computer Interaction; (J) Health Informatics; (K) Information Technologies in Education; (L) Information Technologies in Radiocommunications.

WorldCIST'16 also included workshop sessions taking place in parallel with the conference ones. Workshop sessions covered themes such as (i) Communication

and Journalism in Online Social Networks, (ii) Computer Supported Qualitative Analysis, (iii) Emerging Trends and Challenges in Business Process Management, (iv) Healthcare Information Systems Interoperability, Security and Efficiency, (v) Human–Machine Interfaces in Automation, Robotics and Mechanics, (vi) Innovation in Information Management, (vii) Intelligent Systems, (viii) Internet, Business and Social Networks, Pervasive Information Systems, (ix) Semantics for Humanities Resources.

WorldCIST’16 received contributions from 41 countries around the world. The papers accepted for presentation and discussion at the Conference are published by Springer (this book) and by AISTI (another e-book) and will be submitted for indexing by ISI, EI-Compendex, SCOPUS, DBLP and/or Scholar Google, among others. Extended versions of selected best papers will be published in relevant journals, including SCI/SSCI and Scopus indexed journals.

We acknowledge all those who contributed to the staging of WorldCIST16 (authors, committees, and sponsors); their involvement and support is very much appreciated.

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