

Preface

This book includes extended and revised versions of a set of selected papers from the 11th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2014), which was sponsored by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and co-organized by Austrian Computer Society and Vienna University of Technology—TU Wien (TUW). ICINCO 2014 was held in cooperation with the ACM Special Interest Group on Artificial Intelligence (SIGART), the Association for the Advancement of Artificial Intelligence (AAAI), EUROMICRO, the Robotics Society of Japan, and the Asia Pacific Neural Network Assembly. It is also technically co-sponsored by IEEE Robotics & Automation Society.

ICINCO 2014 received 301 paper submissions, including special sessions, from 49 countries in all continents, of which 20 % were presented as full papers. In order to evaluate each submission, a double-blind paper review was performed by the Program Committee. As in previous editions of the conference, based on the reviewer's evaluations and the presentations, a short list of authors were invited to submit extended versions of their papers for this book. The selected papers reflect the interdisciplinary nature of the conference as well as the logic equilibrium of the four tracks: Intelligent Control Systems and Optimization, Robotics and Automation, Systems Modelling, Signal Processing and Control and Industrial Engineering, Production and Management. The diversity of topics is an important feature of this conference, enabling an overall perception of several important scientific and technological trends.

Furthermore, ICINCO 2014 included five keynote lectures, given by internationally recognized researchers, namely—Angel P. Del Pobil (Universitat Jaume I, Spain), Christoph Stiller (KIT—Karlsruhe Institute of Technology, Germany), Karsten Berns (University of Kaiserslautern, Germany), Riccardo Cassinis (University of Brescia, Italy), and Len Gelman (Cranfield University, United Kingdom). We would like to express our appreciation to all of them and in particular to those who took the time to contribute to this book with a paper.

On behalf of the conference organizing committee, we would like to thank all participants, in particular all the authors, whose quality work is the essence of the conference and the members of the Program Committee, who helped us with their valuable expertise and diligence in reviewing the submitted papers. As we all know, organizing a conference requires the effort of many individuals. We wish also to thank all the members of our organizing committee, whose work and commitment were invaluable. Aiming to provide the potential readers with an objective overview of the latest advances in the four major topics of the conference mentioned above, we hope that this book will be relevant for all researchers and practitioners whose work is related to using informatics in control, robotics, or automation.

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