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Foreword

Security technology, control and automation and circuits, and control, communication, electricity, electronics, energy, system, signal and simulation are areas that attract many academics and industry professionals. The goal of the SecTech, CA, CES-CUBE conferences is to bring together researchers from academia and industry as well as practitioners to share ideas, problems, and solutions relating to the multifaceted aspects of this field.

We would like to express our gratitude to all of the authors of submitted papers and to all attendees for their contributions and participation.

We acknowledge the great effort of all the Chairs and the members of the Advisory Boards and Program Committees of the above-listed events. Special thanks go to SERSC (Science & Engineering Research Support soCietY) for supporting this conference.

We are grateful in particular to the speakers, who kindly accepted our invitation and, in this way, helped to meet the objectives of the conference: Jack Dongarra, Tao Gong, and Subramaniam Ganesan.

We wish to express our special thanks to Yvette E. Gelogo for helping with the editing of this volume.

November 2012

Chairs of SecTech 2012
CA 2012
and CES³

Preface

We would like to welcome you to the proceedings of the 2012 International Conference on Security Technology (SecTech 2012), the 2012 International Conference on Control and Automation (CA 2012), and the 2012 International Conference on Circuits, Control, Communication, Electricity, Electronics, Energy, System, Signal and Simulation, which were held during November 28–December 2, 2012, at Jeju Grand Hotel, Jeju, Korea.

SecTech 2012, CA 2012, and CES³ 2012 provided a chance for academic and industry professionals to discuss recent progress in the related areas. We expect that the conferences and their publications will be a trigger for further related research and technology improvements in this important subject. We would like to acknowledge the great effort of all the Chairs and members of the Program Committee.

We would like to express our gratitude to all of the authors of submitted papers and to all attendees for their contributions and participation.

Once more, we would like to thank all the organizations and individuals who supported this event and helped in the success of SecTech 2012, CA 2012 and CES³ 2012.

November 2012

Tai-hoon Kim on behalf of the Volume Editors

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