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## Preface

This book includes the proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2012 and selected papers of CISSE 2013). The proceedings are a set of rigorously reviewed world-class manuscripts presenting the state of international practice in Innovative Algorithms and Techniques in Automation, Industrial Electronics, and Telecommunications.

CISSE 2012 is a high-caliber platform consists of four research conferences that were conducted entirely online. CISSE 2012 received 100 paper submissions and the final program included 55 accepted papers from more than 80 countries, representing the six continents. Each paper received at least three reviews, and authors were required to address review comments prior to presentation and publication.

Conducting CISSE online presented a number of unique advantages, as follows:

- All communications between the authors, reviewers, and conference organizing committee were done online, which permitted a short 6 week period from the paper submission deadline to the beginning of the conference.
- PowerPoint presentations and final paper manuscripts were available to registrants for 3 weeks prior to the start of the conference.
- The conference platform allowed live presentations by several presenters from different locations, with the audio and PowerPoint transmitted to attendees throughout the internet, even on dial up connections. Attendees were able to ask both audio and written questions in a chat room format, and presenters could mark up their slides as they deem fit.
- The live audio presentations were also recorded and distributed to participants along with the PowerPoints presentations and paper manuscripts within the conference DVD.

The conference organizers and we are confident that you will find the papers included in this volume interesting and useful. We believe that technology will continue to infuse education thus enriching the educational experience of both students and teachers.

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