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# Future Generation Information Technology

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Proceedings

Volume Editors

Tai-hoon Kim  
Hannam University, Daejeon, South Korea  
E-mail: taihoonn@hnu.kr

Young-hoon Lee  
Hannam University, Daejeon, South Korea  
E-mail: yhnlee@sogang.ac.kr

Byeong-Ho Kang  
University of Tasmania, Hobart, Australia  
E-mail: byeong.kang@utas.edu.au

Dominik Ślęzak  
University of Warsaw & Infobright, Warsaw, Poland  
E-mail: slszak@infobright.com

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## Preface

As information technology (IT) becomes specialized and fragmented, it is easy to lose sight that many topics have common threads and because of this, advances in one sub-discipline may transmit to another. The presentation of results between different sub-disciplines encourages this interchange for the advancement of IT as a whole.

This volume comprises the selection of papers presented at the Second International Mega-Conference on Future Generation Information Technology (FGIT 2010), composed of the following 11 international conferences: Advanced Software Engineering and Its Applications (ASEA 2010), Bio-Science and Bio-Technology (BSBT 2010), Control and Automation (CA 2010), Disaster Recovery and Business Continuity (DRBC 2010), Database Theory and Application (DTA 2010), Future Generation Communication and Networking (FGCN 2010), Grid and Distributed Computing (GDC 2010), Multimedia, Computer Graphics and Broadcasting (MulGraB 2010), Security Technology (SecTech 2010), Signal Processing, Image Processing and Pattern Recognition (SIP 2010), as well as u- and e-Service, Science and Technology (UNESST 2010).

In total, 1,630 papers were submitted to FGIT 2010 from 30 countries. The submitted papers went through a rigorous reviewing process and 395 papers were accepted. Of these 395 papers, 60 were assigned to this volume. In addition, this volume contains 7 invited papers and abstracts. Of the remaining accepted papers, 269 were distributed among 8 volumes of proceedings published by Springer in the CCIS series. 66 papers were withdrawn due to technical reasons.

We would like to acknowledge the great effort of all in the International Advisory Boards and International Program Committees, as well as the organizations and individuals who supported the idea of publishing this volume, including SERSC and Springer. Also, the success of FGIT 2010 would not have been possible without the huge support from our sponsors and the work of the Chairs and Organizing Committee.

We are grateful to the following keynote speakers who kindly accepted our invitation: Hojjat Adeli (Ohio State University), Ruay-Shiung Chang (National Dong Hwa University), and Andrzej Skowron (University of Warsaw). We would also like to thank all plenary and tutorial speakers for their valuable contributions.

We would like to express our greatest gratitude to the authors and reviewers of all paper submissions, as well as to all attendees, for their input and participation.

Last but not least, we give special thanks to Rosslin John Robles and Maricel Balitanas. These graduate school students of Hannam University contributed to the editing process of this volume with great passion.

December 2010

Tai-hoon Kim  
Young-hoon Lee  
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