Introduction

The Second International Mega-Conference on Future Generation Information Technology (FGIT 2010) was held in Jeju Island, Korea, December 13–15, 2010. It 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 review process and 395 papers were accepted for presentation. Sixty six papers were withdrawn due to technical reasons. The rest were included in 8-volume proceedings published by Springer in their CCIS series.

Authors of 31 most innovative papers were invited to submit substantially extended, improved, and updated papers. The authors were informed that "*to be considered for publication in the special issue their manuscript should be extended and updated with additional original research performed since the submission of the original paper several months ago. The overlap between the new submission and the paper published in the conference proceedings should not be more than 50%.*" Each substantially extended paper was subsequently reviewed by three to five reviewers using the journal's review form. The seven papers that passed through the journal's rigorous review process successfully are included in this issue.

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