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Editorial

This issue contains seven papers including extended versions of selected five papers presented during the First *International Multiconference on Computer Science and Information Technology (FIMCSIT)*, which took place in Wisla, Poland.

I am happy to note that IJCSA is gaining wide popularity among the network of computer scientists; as a result many new special issues on significant imminent areas of computer science will be published in next couple of years.

June 1, 2007

Rajendra Akerkar
Editor-in-Chief

Editorial for Mini Special Issue

Dear Reader,

It is our pleasure to present to you this *Mini Special Issue* of the *International Journal of Computer Science and Applications*, based on extended versions of selected papers presented during the *First International Multiconference on Computer Science and Information Technology (FIMCSIT)*, which took place in Wisla, Poland, on November 6-10, 2006. *FIMCSIT* evolved from the *Scientific Session* that took place during the *XXI Autumn Meeting of Polish Information Processing Society*. After the relative success of the *Scientific Session*, we have decided to expand and extend it into a full-blown conference. *FIMCSIT* consisted of the main track (with the same name *FIMCSIT*) and several sub-conferences. Each of these sub-conferences published its own Special Issue of a journal. The conference received a total of 111 submissions. After a stringent review process (each paper had at least two reviewers), the original conference Proceedings consisted of 65 contributions (the acceptance rate was 58%). Here, we present to you extended versions of 5 selected papers from the main track. They represent a very broad spectrum of computer science, and in particular

- Real Time Model Checking Using Timed Concurrent State Machines, Wiktor B. Daszczuk – discusses how Timed Concurrent State Machines, which an application of Alur's Timed Automata concept, support the idea of testing automata, allowing to specify time properties easier than temporal formulas.
- Experiences in Testing Automation of a Family of Functional- and GUI-similar Programs, Anna Derezinska, Tomasz Malek – considers unified testing a whole family of programs (characterized by a common functionality and therefore similar GUI interfaces). The testing process integrates extraction of the application specific data from its executable and the usage of the capture and replay testing technique.

- Concurrent Error Detection in S-boxes, Ewa Idzikowska, Krzysztof Bucholc – introduces a low-cost, concurrent checking, redundancy-based methods for multiple error detection in S-boxes of symmetric block ciphers.
- Experimental Dependability Evaluation of Memory Manager in the Real-time Operating System, Pawel Pisarczyk – presents results of experimental dependability evaluation of the Phoenix-RTOS operating system.
- Selection of Indexing Structures in Grid Data Warehouses with Software Agents, Marcin Gorawski, Michal Gorawski, Slawomir Bankowski – proposes new data warehouse indexing structures based on a Grid-based approach.

This year *FIMCSIT* has evolved into *IMCSIT 2007 (International Multiconference on Computer Science and Information Technology)* and its www site is: <http://www.imcst.org>. This move represents our desire to develop *IMCSIT* into a premiere multiconference where people will come because of the unique warm and friendly atmosphere on the one hand, and for inspiring exchange of ideas on the other. We are also happy to announce that we plan also to publish a *Special Issue* of the *International Journal of Computer Science and Applications*, based on selected papers from that conference.

Sincerely,
 Maria Ganzha
 Marcin Paprzycki