Foreword to the 13th IEEE DDECS Symposium

We cordially welcome all of you to the 13th IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems in Vienna, the capital of Austria. DDECS had been organized as a workshop till 2008, but in 2009 it was turned into a symposium. Before 2010 it was held in the Czech Republic (1995, 2002, 2006, 2009), Hungary (2001, 2005), Poland (1997, 2003, 2007), and Slovakia (2000, 2004, 2008), but this year is the first time this event is being held outside the above-mentioned four countries, in historic and beautiful Vienna by the Faculty of Informatics, Technical University of Vienna. This important decision was accepted by the DDECS Steering Committee during its meeting in Krakow in 2007. Thus, the DDECS symposium has become one of the major scientific events in the area of design and test in Central Europe and, as in previous years, it is again sponsored by the IEEE Computer Society and Test Technology Technical Council (TTTC).

This year we have recognized the increasing international importance of the symposium. While it still serves the Central European community as an important source of professional information, the symposium this year is attracting more people than in previous years from 34 countries of 4 continents of the world. It is a great pleasure to report that we have received 149 submissions (110 regular papers, 28 student papers, 5 from industrial community and 6 proposals for embedded tutorials). The form of embedded tutorials has been newly introduced this year in order to give internationally recognized experts the opportunity to report on their status and recent developments in their field of research. We have received a number of very competitive submissions, from which the program committee finally selected 4 for presentation. We are confident that these will further contribute to the high scientific standard of the event. We are grateful to the 63 Programme Committee members and 59 external reviewers for their very helpful work on reviews and comments which allowed us to create a symposium programme of high-quality. The technical programme consists of three keynote speeches with excellent titles, 33 regular papers, 6 application papers, 33 posters, and 13 student papers (8 for oral and 5 as poster presentations). The programme is organized in parallel sessions during the whole symposium time and is divided into eleven regular sessions, one session targeted to applications, two student sessions and four poster sessions (one of which is for students’ posters).

In 2004, the Steering Committee of DDECS decided to start the tradition of awarding the Jan Hlávička Prize to the best papers presented during DDECS – one paper from the area of design and one from the area of test. The best papers are selected by a committee consisting of five experts. The committee assesses the technical and scientific quality of papers together with the presentation on DDECS. For the assessment, only those papers which were seen as the best ones by the reviewers are selected. In 2009 the following papers were awarded:

(1) Yiorgos Sfikas, Yiorgos Tsiatouhas from the University of Ioannin, Greece: Physical Design Oriented DRAM Neighborhood Pattern Sensitive Fault Testing.

(2) Kurt Schweiger, Heimo Uhrmann, Horst Zimmermann from the Vienna University of Technology, Austria: Low-Voltage Low-Power Double Bulk Mixer for Direct Conversion Receiver in 65nm CMOS.

The Steering Committee has strong reasons to believe that IEEE DDECS 2010 will be a success. Much voluntary work has been done to prepare a very good technical programme this year and thanks to our team of local organizers and the support of the Technical University of Vienna the DDECS 2010 participants will find a stimulating and fruitful event in Vienna. We also believe that DDECS participants will contribute to a high-level at IEEE DDECS 2010 with excellent presentations and informal discussions.

We wish you a pleasant stay in Vienna!

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