CENICS 2013

Foreword

The Sixth International Conference on Advances in Circuits, Electronics and Micro-electronics [CENICS 2013], held between August 25-31, 2013 in Barcelona, Spain, continued a series of events initiated in 2008, capturing the advances on special circuits, electronics, and micro-electronics on both theory and practice, from fabrication to applications using these special circuits and systems. The topics cover fundamentals of design and implementation, techniques for deployment in various applications, and advances in signal processing.

Innovations in special circuits, electronics and micro-electronics are the key support for a large spectrum of applications. The conference is focusing on several complementary aspects and targets the advances in each on it: signal processing and electronics for high speed processing, micro- and nano-electronics, special electronics for implantable and wearable devices, sensor related electronics focusing on low energy consumption, and special applications domains of telemedicine and ehealth, bio-systems, navigation systems, automotive systems, home-oriented electronics, bio-systems, etc. These applications led to special design and implementation techniques, reconfigurable and self-reconfigurable devices, and require particular methodologies to be integrated on already existing Internet-based communications and applications. Special care is required for particular devices intended to work directly with human body (implantable, wearable, eHealth), or in a human-close environment (telemedicine, house-oriented, navigation, automotive). The mini-size required by such devices confronted the scientists with special signal processing requirements.

We take here the opportunity to warmly thank all the members of the CENICS 2013 Technical Program Committee, as well as the numerous reviewers. The creation of such a high quality conference program would not have been possible without their involvement. We also kindly thank all the authors who dedicated much of their time and efforts to contribute to CENICS 2013. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

Also, this event could not have been a reality without the support of many individuals, organizations, and sponsors. We are grateful to the members of the CENICS 2013 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that CENICS 2013 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the field of circuits, electronics and micro-electronics.

We hope Barcelona provided a pleasant environment during the conference and everyone saved some time for exploring this beautiful city.

CENICS 2013 Chairs:
Vladimir Privman, Clarkson University - Potsdam, USA
Sergey Y. Yurish, Technical University of Catalonia (UPC-Barcelona), Spain
Martin Horauer, University of Applied Sciences Technikum Wien, Austria
Adrian Muscat, University of Malta, Malta

CENICS 2013 Research/Industry Chairs
Ravi M. Yadahalli, PES Institute of Technology & Management - Karnataka, India

CENICS 2013 Industry Liaison Chairs
Falk Salewski, Lacroix Electronics, Germany

CENICS 2013 Publicity Chair
Sandra Sendra Compte, Universidad Politécnica de Valencia, Spain

CENICS 2013 Special Area Chairs
Formalisms
Peeter Ellervee, Tallinn University of Technology, Estonia

Application-oriented
Josu Etxaniz Mañon, University of the Basque Country / Universidad del País Vasco / Euskal Herriko Unibertsitatea - Bilbao, Spain

Sensors
Yulong Zhao, Xi'an Jiaotong University, China