

# CENICS 2020

## Forward

The Thirteenth International Conference on Advances in Circuits, Electronics and Micro-electronics (CENICS 2020), held on November 21-25, 2020, 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 covered 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 2020 technical program committee, as well as all the 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 effort to contribute to CENICS 2020.

We also thank the members of the CENICS 2020 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope that CENICS 2020 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in the field of circuits, electronics and micro-electronics.

### **CENICS 2020 Chairs**

#### **CENICS 2020 Technical Program Committee Publicity Chair**

Javier Rocher, Universitat Politècnica de València, Spain

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