

19th International Conference “Mixed Design of Integrated Circuits and Systems” - MIXDES 2012

On 24-25 May 2012, Warsaw, Poland, the annual International Conference MIXDES 2012 took place. The event was organized by the Technical University of Lodz together with the Warsaw University of Technology and Military University of Technology. This year the conference was organised in frame of the Microwave and Radar Week (MRW) together with 19th International Conference on Microwaves, Radar and Wireless Communications MIKON-2012 and 13th International Radar Symposium IRS-2012. The conference was co-sponsored by The Institute of Electrical and Electronics Engineers, Poland Section IEEE – ED & CAS Societies and the Polish Academy of Sciences, Committee of Electronics and Telecommunication, Section of Microelectronics and Sections of Signals and Electronic Circuits and Systems.

The conference was attended by over 150 scientists coming from 26 countries all over the world. During the conference five invited and 119 regular presentations were given organised in oral, poster, and special sessions.

This year the MIXDES 2012 organising committee had pleasure to invite five keynote speakers (3 of them are IEEE Distinguished Lecturers):

- *Ballistic Transport in Nanoscale Devices*, V.K. Arora (Univ. Tekn. Malaysia, MALAYSIA and Wilkes Univ., USA)
- *Semiconductor Nanowires for Future Electronic Devices*, H. Riel (IBM Research - Zurich, Switzerland)
- *Simulation and Modeling of Nanoscale Multiple-gate SOI MOSFETs*, B. Iñíguez (Univ. Rovira i Virgili, Spain)
- *Transistor and Interconnect Modeling for Design of Carbon Nanotube Integrated Circuits*, A. Srivastava (Louisiana State Univ., USA)
- *Trends and Challenges in Micro- and Nanoelectronics for the Next Decade*, C. Claeys (IMEC, Belgium)

In addition to the regular program four special sessions were organized:

- *Compact Modeling Support for Nanoscaled IC Technology and Design* organised by Dr. Daniel Tomaszewski (Inst. of Electron Techn., Poland) and Dr. Władysław Grabiński (GMC Suisse)
- *Especial TRAMS (Terascale Reliable Adaptive Memory Systems) Project Session* organised by Prof. Antonio Rubio (Universitat Politècnica de Catalunya, Spain)
- *Technologies towards Cognitive Transceivers - Par4CR Project* organised by Dr. Martha Suarez, Ewa Kurjata-Pfitzner and Dr. Jerzy Synka (Institute of Electron Technology, Poland)
- *xTCA for Instrumentation* organised by Dr. Dariusz Makowski (Technical University of Łódź, Poland) and Dr. Stefan Simrock (ITER, France)

Based on evaluation of the quality of the papers and presentations, twelve of the papers have received the Best Paper Award. Additionally Andriana Voulkidou from Aristotle University of Thessaloniki, Greece has got Young Scientists Contest Award for the presentation of the paper entitled “A Low Noise Low Offset Current Mode Instrumentation Amplifier. Furthermore, the paper entitled *A Novel Charge Recycling Approach to Low-Power Circuit Design* (C. Ulaganathan, C.L. Britton, Jr., J. Holleman, B.J. Blalock - The Univ. of Tennessee, USA) has got the Poland Section IEEE ED Society Special Award from the Chapter Chairman.

The next MIXDES 2013 Conference will take place in Gdynia. The Preliminary Call for Papers is available at <http://www.mixdes.org/downloads/call2013.pdf>. More information about the past and next MIXDES Conferences can be found at <http://www.mixdes.org>.



Invited presentation of IEEE Distinguished Lecturer



During regular session of MIXDES conference