Foreword

The Second International Conference on Sensor Device Technologies and Applications (SENSORDEVICES 2011), held between August 21-27, 2011 in Nice/Saint Laurent du Var, France, was a multi-track event covering topics related to sensing device technologies: ultrasonic, piezo, infrared, medical, etc.

Most of the sensor-oriented research and industry initiatives are focusing on sensor networks, data security, exchange protocols, energy optimization, and features related to intermittent connections. Recently, the concept of Internet-of-things gathers attention, especially when integrating IPv4 and IPv6 networks. The followup and complementing event SENSORDEVICES 2011, The Second International Conference on Sensor Device Technologies and Applications, initiates a series of events focusing on sensor devices themselves, the technology-capturing style of sensors, special technologies, signal control and interfaces, and particularly sensors-oriented applications. The evolution of the nano-and microtechnologies, nanomaterials, and the new business services make the sensor device industry and research on sensor-themselves very challenging.

SENSORDEVICES 2011 also included:

- WISH 2011, The First International Workshop on Intelligent Sensor Hub

We take here the opportunity to warmly thank all the members of the SENSORDEVICES 2011 Technical Program Committee, as well as the numerous reviewers. The creation of such a broad and 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 SENSORDEVICES 2010. 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 SENSORDEVICES 2011 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that SENSORDEVICES 2011 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the area of sensor devices and their applications.

We hope Côte d’Azur provided a pleasant environment during the conference and everyone saved some time for exploring the Mediterranean Coast.

SENSORDEVICES 2011 Chairs

Advisory Chairs
Sergey Yurish, IFSA - Barcelona, Spain
Petre Dini, Concordia University, Canada / China Space Agency Center, China
Elena Gaura, Coventry University, UK
Vittorio Ferrari, Università di Brescia, Italy
Research/Industry Chairs
Raluca - Ioana Stefan-van Staden, National Institute of Research for Electrochemistry and Condensed Matter, Bucharest, Romania
Alberto Yúfera, Centro Nacional de Microelectronics (CNM-CSIC) - Sevilla, Spain

Special Area Chairs

Ultrasonic and piezoelectric sensors
Thomas Herzog, Fraunhofer Institute for Non-Destructive Testing IZFP - Dresden, Germany
Henning Heuer, Fraunhofer Institute for Non-Destructive Testing IZFP - Dresden, Germany

Optical sensors
Vítor Carvalho, Minho University, Portugal
Irinela Chilibon, National Institute of Research and Development for Optoelectronics - Bucharest, Romania

Gas sensors
Dongfang Yang, National Research Council Canada - London, Canada

Nanosensors
Marco Tartagni, University of Bologna - Cesena, Italy

Testing and validation
Ksenia V. Sapozshnikova D.I. Mendeleyev Institute for Metrology - St. Petersburg, Russia

Vibration sensors
Subodh Kumar Singhal, National Physical Laboratory, New Delhi, India

WISH Chair
Stephane Gervais-Ducouret, Freescale Semiconductor, Inc., France