

# SENSORDEVICES 2016

## Forward

The Seventh International Conference on Sensor Device Technologies and Applications (SENSORDEVICES 2016), held between July 24-28, 2016 in Nice, France, continued 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.

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 IIPv6 networks.

We welcomed technical papers presenting research and practical results, position papers addressing the pros and cons of specific proposals, such as those being discussed in the standard fora or in industry consortia, survey papers addressing the key problems and solutions on any of the above topics short papers on work in progress, and panel proposals.

The conference had the following tracks:

- Gas sensors
- Ultrasonic and piezosensors
- Sensor devices
- Medical devices and sensors applications
- Sensor device technologies

We take here the opportunity to warmly thank all the members of the SENSORDEVICES 2016 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 that dedicated much of their time and effort to contribute to SENSORDEVICES 2016. 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 also gratefully thank the members of the SENSORDEVICES 2016 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope SENSORDEVICES 2016 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress related to sensor devices themselves as well as their applications. We also hope that Nice, France provided a pleasant environment during the conference and everyone saved some time enjoy the beautiful French Riviera.

## **SENSORDEVICES 2016 Advisory Committee**

Sergey Y. Yurish, International Frequency Sensor Association (IFSA), Spain  
Petre Dini, Concordia University, Canada / China Space Agency Center, China  
Elena Gaura, Coventry University, UK  
Vittorio Ferrari, Università di Brescia, Italy

## **SENSORDEVICES 2016 Research/Industry Chairs**

Raluca - Ioana Stefan-van Staden, National Institute of Research for Electrochemistry and Condensed Matter, Bucharest, Romania  
Alberto Yúfera, Centro Nacional de Microelectronica (CNM-CSIC) - Sevilla, Spain

## **SENSORDEVICES 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, IPCA / Minho University-Algorithmi R&D, Portugal  
Irinela Chilibon, National Institute of Research and Development for Optoelectronics - Bucharest, Romania

### **Testing and validation**

Ksenia V. Sapozhnikova D.I. Mendeleev Institute for Metrology - St. Petersburg, Russia

### **Vibration sensors**

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