

## 2<sup>ND</sup> IEEE INTERNATIONAL WORKSHOP ON ADVANCES IN SENSORS AND INTERFACES

VILLA ROMANAZZI CARDUCCI • 26-27 JUNE 2007 BARI - ITALY

Continuous technological improvements are opening new areas of application in micro- and nano-electronics and photonics. Micro- and nano-sensor systems include on the same die or in the same package also the post-processing electronics for a wide range of applications. Many systems are in remote or noisy locations, e.g. industrial process control, automotive systems, space aircrafts.

The environmental conditions may be very harsh, reducing the overall lifetime due to fast ageing, thus determining the performance degradation. Some applications such as biomedicine, particle physics and electrochemistry, require suitable interfaces to improve the signal detection.

Although significant advances have been reported over the last two decades, many problems are still to be solved. Modeling, design procedures and fabrication techniques are under active research, while industrial interest is aiming at satisfying technological, cost and manufacturing requirements.

The **IEEE International Workshop on Advances in Sensors and Interfaces** provides a forum for exchange of experience among experts actively involved in research, development and evaluation of new concepts, theoretical methods and experimental characterization as well as in testing techniques concerning micro- and nano-sensor systems.

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Topics addressed at IWASI'07:

- Sensor interfaces
- Sensors in biomedical, environmental applications
- Automotive sensor & sensor interfaces
- New materials and new technologies for sensors
- Sensor modeling and design techniques
- Sensors for space, nuclear and particle physics
- Optoelectronic and photonic sensors
- MEMS and MOEMS-based sensors
- Post-processing electronics
- Noise reduction techniques in sensors interfaces
- Testing techniques for sensors systems
- Sensors networks

Invited Papers:

**"Ultra-low power Biopotential Interfaces and their application in wearable and implantable systems"**

Chris Van Hoof, Refet Firat Yazicioglu, Tom Torfs, Patrick Merken (Imec, Leuven, Belgium)

**"Sensor networks for industrial applications"**

A. Flammini, P. Ferrari, D. Marioli, E. Sisinni, A. Taroni (Brescia University, Italy)

**"Molecular Electronic Circuits"**

Paul D. Franzon (North Carolina State University, USA)

**"CMOS Chips for Bio Molecule Sensing Purposes"**

Roland Thewes

**"Application of three-dimensional optical acquisition to the documentation and the analysis of crime scenes"**

Giovanna Sansoni (Dept. of Electronics for Automation, Brescia University, Italy)

**"Energy Scavenging for Wireless Sensor Nodes"**

Eric M. Yeatman (Imperial College London, UK)

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