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**ElectronicISIE 2010 – IEEE International
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Flexible Electronics for Chemical and Biological Sensors: from materials to applications

organized by

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Call for Papers

Nowadays many emergent applications make use of semiconducting organic materials for realizing low cost devices, ranging from chemical and biomedical sensors to organic electronics, and to the development of inexpensive photovoltaic cells, and field effect transistors. Many of these applications take also considerable advantages from the unique electrical properties and the high surface (i.e. active area) to volume ratio of carbon nanotubes (CNTs). Flexible organic electronic devices based on these materials display unique characteristics of connections and circuitry for interfacing with other components. The fabrication of these devices is compatible with low cost deposition tools ranging from commercial inkjet printers to drop on demand systems, which are the turning point for the development of flexible chemical sensors.

Such technology may benefit largely from the new breakthroughs made in the past few years in the synthesis of new organic semiconducting materials and technological achievements in terms of sensor device miniaturization, low power consumption, reliability and accuracy.

This special session could be an interdisciplinary forum for scientists and researchers working on such topics.

Topics of interest include, but are not limited to:

- Semiconducting Organic Materials and Thin-Films
- Organic/inorganic and Hybrids Electronic Materials
- Chemical and Biochemical Flexible Sensors

- Printed electronic sensors
- Wearable Sensors and Systems
- Flexible Electronics and Measurement Techniques
- Manufacturing and Applications of Flexible Sensors

Submission procedure: The same as for regular papers.

Submission deadline: The same as for regular papers.

All the instructions for paper submission are included on the conference website:

<http://www.isie2010.it>