Special Session on Implantable Body Sensor Network -IBSN2010-

**Under the framework of the 10th IEEE International Conference on Intelligent Systems Design and Applications, ISDA'10
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Session Chairs

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Introduction: The last decade has witnessed a rapid surge of interest in new sensing and monitoring devices for healthcare and the use of wearable/wireless devices and sensor networks for clinical applications. Body Sensor Network BSN - a base technology for permanent monitoring and logging of vital signs is a proven method of supervising the health status of patients suffering from chronic diseases, such as Diabetes and Asthma. Another prominent area of application for long-term logging of patient data is cardiology, where 24-hour-ECGs are required for therapy control and as early indicators for impending heart attacks.The basic concept of BSN is the fusion of both ideas: a set of mobile, compact units which enable transfer of vital parameters between the patient´s location and the clinic or the doctor in charge. The vital signs data flow passes a chain of BSN modules from each sensor to a main body station, which consolidates the data streams of all sensor modules attached. It transmits the data to a home base station, from where they can be forwarded via telephone line or internet. Topics include, but are not limited to:-

- In-body, on-body, and around body networks
- Sport and leisure applications
- Sensor technology and biocompatibility
- Home monitoring and assisted living applications
- Wearable and implantable sensor integration and development platforms
- Wearable biomotion sensors to monitor human activity for diagnosis, therapy, training, sports, etc.
- Links from the body to environment sensing, smart dwellings, and home monitoring
- Networking and security issues for BSN
- Pervasive health care and patient monitoring
- Integrating BNS into the healthcare system
- Novel wireless communication technologies
- Wearable system design issues
- Entertainment and lifestyle applications
- Assistive technologies for independent aging

Instructions for Authors:

Papers must correspond to the requirements detailed in the (Paper Submission) on the conference flyer http://cig.iet.unipi.it/isda2010/flyer.pdf The ISDA 2010 Proceedings will be included in the IEEE Xplore digital library. Before publishing your final work at IEL, we need your kind help to ensure the availability and the compatibility of your camera-ready paper.

Registration Fees:

All papers must be presented by one of the authors, who must pay the registration fees.

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Paper Reviewing and Publication

Submitted papers will be reviewed. Accepted papers, which should not exceed 6 pages (PDF) following the double column IEEE format. All accepted papers will be published in the proceedings of the IEEE-ISDA'10. Selected papers will be published in special issues of a selection of International Journals (to be announced).

Tentative Dates of Submission and Acceptance

- Deadline for paper submission   June 26, 2010

- Notification of acceptance   August 14, 2010

- Camera-ready manuscript submission   September 15, 2010