

# 3<sup>rd</sup> IEEE-EMBS International Summer School and Symposium on Medical Devices and Biosensors (ISSS-MDBS)

## “Wearable Body Sensor Networks and E-Textile Solutions for M-Healthcare”



Summer School: Sept. 4-5, 2006    Symposium: Sept. 5-6, 2006

Venue: Harvard-MIT Division of Health Sciences and Technology,  
Cambridge, MA, USA



### Conference Chair:

**Dr. Bonato, Paolo**  
Harvard Medical School and  
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### Conference Co-Chair:

TBN

### Technical Program Chair:

**Dr. Zhang, Yuan-ting**  
The Chinese University of Hong  
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### Technical Program Co-Chair:

**Dr. Asada, Harry**  
Massachusetts Institute of  
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### Technical Program Members:

**Dr. De Rossi, Danilo**  
University of Pisa, Italy

**Dr. Dittmar, Andre**  
CNRS/INSA Lyon, France

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## Announcement

Following the success of the international summer schools at University of Wisconsin-Madison and the Chinese University of Hong Kong, the 3<sup>rd</sup> ISSS-MDBS, sponsored by IEEE Engineering in Medicine and Biology Society, will be held at MIT, USA from Sept. 4-5, 2006. Innovative technologies in MDBS have been recently introduced to allow continuous monitoring of patient status in the home and community settings. The school will offer tutorial presentations and hands-on experience to familiarize attendees with emerging solutions in body sensor networks and e-textile for wearable medical devices. In addition, the combined symposium on Sept. 5-6, 2006 will provide participants with opportunities for presenting their work (papers are solicited) and interacting with other individuals with an interest in the field. By attending the three-day meeting, researchers and professionals will gain knowledge on the state-of-the-art of biosensors and e-textile solutions for wearable devices and their application in m-healthcare.

### *Highlighted Lectures*

1. **Body Sensor Networks:** During the last decade, we have witnessed rapid developments in BSN aimed to gather data unobtrusively from wearable biomedical sensors. BSN technologies combine research advances in the academic and private sectors to monitor the physiological status of individuals over extensive periods of time.
2. **E-Textile for Wearable Medical Devices:** Emerging e-textile technologies have gained the interest of academic researchers and professionals in the private sector. Recent work in this field has led to new e-textile materials and new ways to integrate e-textile solutions in medical devices. New applications are emerging in m-healthcare.

### *Topics and Lecturers:*

1. Sensing technology *Prof. John Webster, Univ of Wisconsin-Madison*
2. Body sensor networks *Prof. Joe Paradiso, Massachusetts Institute of Technology*
3. Wireless communication *Prof. Matt Welsh, Harvard University*
4. E-textile medical devices *Prof. Danilo De Rossi, University of Pisa*
5. E-textile systems *Prof. Harry Asada, Massachusetts Institute of Technology*
6. Wearable devices for M-health *Prof. Y.T. Zhang, The Chinese University of Hong Kong*
7. Home monitoring *Prof. Stephen Intille, Massachusetts Institute of Technology*
8. Applications in rehabilitation *Prof. Paolo Bonato, Harvard Medical School*

### *Who should Participate*

1. Junior faculty members, researchers, and students with an interest in biomedical engineering and healthcare delivery.
2. Researchers and engineers in the private sector with interest in the latest emerging technological developments in medical devices and their clinical applications.

### *Important Dates*

Symposium Paper Submission Deadline: June 2, 2006  
Notification of Paper Acceptance: June 16, 2006  
Registration Deadline: June 30, 2006



For more information, please contact

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WWW Information Updates:

<http://bme.ee.cuhk.edu.hk/iss-mdb/>