

3rd IEEE-EMBS International Summer School and Symposium on Medical Devices and Biosensors (ISSS-MDBS)

Theme: "Wearable Body Sensor Networks and E-Textile Solutions for M-Health"



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

Venue: Harvard-MIT Division of Health Sciences and Technology,
E-25, Massachusetts Institute of Technology, Cambridge, MA, USA



Announcement

Following the success of the international summer schools at University of Wisconsin-Madison and the Chinese University of Hong Kong, the 3rd ISSS-MDBS, sponsored by IEEE Engineering in Medicine and Biology Society, will be held at MIT, USA, Sept. 4-6, 2006. Innovative technologies in MDBS have been recently introduced to allow noninvasive and 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 and interacting with their peers in the field. By attending the three-day meeting, researchers and professionals will gain knowledge on the state-of-the-art of wearable sensor networks and e-textile solutions and their applications in m-health.

Highlighted Programs

1. **Body Sensor Networks:** We have witnessed recently 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, physical, biochemical, emotional, and sensorial statuses 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-health.

Topics and Invited Lecturers/ Keynote Speakers

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| 1. E-health | <i>Dr. Jean-Claude Healy, World Health Organization (WHO)</i> |
| 2. Sensing technology | <i>Prof. John Webster, Univ of Wisconsin-Madison</i> |
| 3. Body sensor networks | <i>Prof. Joe Paradiso, Massachusetts Institute of Technology</i> |
| 4. Wireless communication | <i>Prof. Matt Welsh, Harvard University</i> |
| 5. E-textile solutions | <i>Prof. Danilo De Rossi, University of Pisa</i> |
| 6. E-textile systems | <i>Prof. Harry Asada, Massachusetts Institute of Technology</i> |
| 7. Home monitoring | <i>Prof. Stephen Intille, Massachusetts Institute of Technology</i> |
| 8. Applications in rehabilitation | <i>Prof. Paolo Bonato, Harvard Medical School</i> |

Panel Discussion about Standards on Wearable Medical Devices

Dr. C. C. Carey, US Food and Drug Administration (FDA)
Prof. Y.T. Zhang, The Chinese University of Hong Kong

Who Should Participate

1. Junior faculty members, researchers, and students with an interest in biomedical engineering and health 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

Student supports will be available. Please visit the conference website for the details.



Conference Chair:

Dr. Bonato, Paolo
Harvard Medical School and
Harvard-MIT Division of Health
Sciences and Technology, USA

Technical Program Chair:

Dr. Zhang, Yuan-ting
The Chinese University of Hong
Kong, HKSAR, China

Technical Program Co-Chair:

Dr. Asada, Harry
Massachusetts Institute of
Technology, USA

Technical Program Committee Members:

Dr. Davenport, David M.
Global Research, GE, USA

Dr. De Rossi, Danilo
University of Pisa, Italy

Dr. Dittmar, Andre
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Dr. Falck, Thomas
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Philips Research, Germany

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Center, Motorola LABS, USA

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GIT, USA

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