

## Committees (ordered alphabetically)

### Conference Committee

Conference Chair: Dr. Y. T. Zhang (China)

Conference Co-chair: Dr. Morteza Naghavi (USA)

### Technical Program Committee

#### Chair:

Dr. Paolo Bonato (USA)

#### Co-chair:

Dr. Carmen C.Y. Poon (China)

Dr. Hamid R. Arabia (USA)

Dr. Nizamettin Aydin (Turkey)

Dr. Fabio Babiloni (Italy)

Dr. Themis Exarchos (Greece)

Dr. Harinath Garudadin (USA)

Dr. Robert Istepanian (UK)

Dr. Fan Jiang (China)

Dr. Emil Jovanov (USA)

Dr. Tsair Kao (Taiwan, China)

Dr. Periklis Klonas (Greece)

Dr. Yock Khuan Lee (Malaysia)

Dr. Ning Lan (China)

Dr. Andreas Lymberis (Belgium)

Dr. Ilias Maglogiannis (Greece)

Dr. Konstantina Nikita (Greece)

Dr. Gang-Min Ning (China)

Dr. Gregory O'Hare (Ireland)

Dr. Julien Penders (Netherlands)

Dr. Laura M. Roa (Spain)

Dr. Matthias Reumann (Australia)

Dr. A. El Saddik (Canada)

Dr. Masaru Sugimachi (Japan)

Dr. Jie Tian (China)

Dr. Toshiyo Tamura (Japan)

Dr. Alexey Tsymlar (Belgium)

Dr. Mang I Vai (China)

Dr. Claudio Vinegoni (USA)

Dr. Ming-Xi Wan (China)

Dr. Da Xing (China)

Dr. Alfred Yu (China)

Dr. Shangming Zhou (UK)

Dr. Reyer Zwiggelaar (UK)

### International Committee

#### Chair:

Dr. Christian Roux (France)

#### Co-chairs:

Dr. R. Magjarevic (Croatia)

Dr. G. Z. Yang (UK)

Dr. Metin Akay (USA)

Dr. Hasan Al-Nashash (USA)

Dr. Fabio Babiloni (Italy)

Dr. P. Pat Banerjee (USA)

Dr. Robert Butera (USA)

Dr. Joseph Cafazzo (Canada)

Dr. Carole Carey (USA)

Dr. Xue-Wen Chen (USA)

Dr. Si-Ping Chen (China)

Dr. C. E. Chronaki (Greece)

Dr. Shaun Cloherty (Australia)

Dr. Semahat Demir (USA)

Dr. M. Z. Diaz (Columbia)

Dr. Adam Dhawan (USA)

Dr. Haemmerich Dieter (USA)

Dr. Lei Ding (USA)

Dr. Hui-Long Duan (China)

Dr. Dominique Durand (USA)

Dr. Yu-Bo Fan (China)

Dr. David D. Feng (Australia)

Dr. Stanley M. Finkelstein (USA)

Dr. Dimitrios Fotiadis (Greece)

Dr. Shang-Kai Gao (China)

Dr. Mark Van Gils (Finland)

Dr. James Goh (Singapore)

Dr. Bin He (USA)

Dr. Christopher James (UK)

Dr. Keyuan Jiang (USA)

Dr. Ali Khademhosseini (USA)

Dr. Michael Khoo (USA)

Dr. Ilkka K. Korhonen (Finland)

Dr. Andrew Laine (USA)

Dr. Fedor Lehocki (Slovak)

Dr. Steffen Leonhardt (Germany)

Dr. Jean-Francois Leralut (France)

Dr. Pai-Chi Li (Taiwan, China)

Dr. Qing-Ming Luo (China)

Dr. Hui Ma (China)

Dr. Carolyn McGregor (Canada)

Dr. Silvestro Micera (Italy)

Dr. Michael R. Neuman (USA)

Dr. Hans van Oostrom (USA)

Dr. Kwang Suk Park (Korea)

Dr. Constantinos Pattichis (Cyprus)

Dr. Jose C. Principe (USA)

Dr. Justin C. Sanchez (USA)

Dr. Kenji Sunagawa (Japan)

Dr. Upkar Varshney (USA)

Dr. Lipo Wang (Singapore)

Dr. May D. Wang (USA)

Dr. Zhi-Hua Wang (China)

Dr. James Welland (USA)

Dr. Bruce Wheeler (USA)

Dr. Ed Wu (China)

Dr. Lisa Xu (China)

Dr. Ken-ichi Yamakoshi (Japan)

Dr. C. M. Yang (Taiwan, China)

Dr. Gudrun Zahlmann (Germany)

Dr. Dan Zhu (China)

### Organizing Committee Chairs and Co-chairs

Local Arrangement: Dr. Ling Qin / Dr. C. Y. Zhang

Treasurer: Dr. G. L. Li / Dr. Kevin Hung

Publication: Dr. Lei Wang / Dr. X. X. Cai

Social Activities: Dr. L. P. Wang / Dr. Z. H. Wang

Industrial Relations: Dr. Lei Jin / Mr. Bryan So

Publicity: Dr. Ye Li / Dr. H. R. Zheng

Student Activities: Dr. T. Ma / Ms. R. F. Yan

## Registration

Registration for Pre-conference Workshop on 5 Jan 2012

REGISTRATION RATES	EARLY	NORMAL (after 2 Dec 2011)
Student Registration	USD30/RMB250	USD50/RMB400
Regular Registration	USD100/RMB850	USD150/RMB1,200

Registration for Conference on 6-7 Jan 2012

REGISTRATION RATES	EARLY	NORMAL (after 2 Dec 2011)
EMBS Member	USD220/RMB1,500	USD280/RMB2,000
IEEE Member	USD280/RMB2,000	USD350/RMB2,500
Non-Member	USD330/RMB2,500	USD390/RMB2,700
EMBS Student Member	USD90/RMB650	USD130/RMB900
IEEE Student Member	USD120/RMB850	USD150/RMB1,000
Student Non-Member	USD190/RMB1,300	USD220/RMB1,500

Registration includes access to all scientific sessions, conference banquet, tea breaks, conference program book, conference proceedings and CD-ROM.

Notification of cancellation must be made in writing and sent to the conference committees. For cancellation before 10 Dec 2011, 50% of the registration fee will be refunded. No refund will be made for cancellation after 10 Dec 2011.

## Contact

Ms. Laura J. Wolf, l.wolf@ieee.org  
Tel: +1 732-981-3433 (USA)

Ms. Julie Yang, hua.yang@siat.ac.cn  
Tel: +86 755 8639-2249 (Shenzhen)

Mr. Y. P. Liang, ypliang@ee.cuhk.edu.hk  
Tel: +852 2809-8285 (Hong Kong)

For complete information and details, please visit the conference website at <http://bhi2012.embs.org>



## IEEE-EMBS INTERNATIONAL CONFERENCE ON BIOMEDICAL AND HEALTH INFORMATICS (BHI 2012)

in conjunction with 8<sup>th</sup> International Symposium on Medical Devices and Biosensors (MDBS), and 7<sup>th</sup> International Symposium on Biomedical and Health Engineering (BHE)

## Call for Papers

5-7 JAN 2012 | HONG KONG AND SHENZHEN, CHINA

(PAPER SUBMISSION DEADLINE: 14 OCT 2011)



## IEEE-EMBS INTERNATIONAL CONFERENCE ON BIOMEDICAL AND HEALTH INFORMATICS (BHI 2012)

The inaugural meeting of the IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI) will be held in Hong Kong and Shenzhen, China, 5-7 January, 2012. BHI is a new Special Topic Conference recently launched by the IEEE Engineering in Medicine and Biology Society (EMBS). The inaugural meeting will be held in conjunction with the 8th International Symposium on Medical Devices and Biosensors (MDBS) and the 7th International Symposium on Biomedical and Health Engineering (BHE), with joint sponsorship by the IEEE-EMBS and the Key Lab of Health Informatics of Chinese Academy of Sciences (HI-CAS).

BHI 2012 will be focused on the theme of Global Grand Challenge of Health Informatics. It will provide a unique forum to examine enabling technologies of devices and systems that optimize the acquisition, transmission, processing, storage, retrieval of biomedical and health information as well as to report clinical studies on the novel application of health information systems and the deployment of telemedicine.

## Important Dates

**Paper Submission Deadline:** 14 Oct 2011

**Notification of Acceptance:** 11 Nov 2011

**Early Registration:** 2 Dec 2011

**Pre-conference Workshop:** 5 Jan 2012

**Conference Dates:** 6-7 Jan 2012

## Features

- › Special Academician & Fellow Forum sponsored by the Key Lab for Health Informatics of Chinese Academy of Sciences
- › Special Workshop on "Meet with IEEE-EMBS Editors-in-Chief" sponsored by IEEE Engineering in Medicine and Biology Society
- › Special Panel on "Grand Challenge on Health Informatics"
- › Special Forum on "Imaging Informatics"
- › Accepted papers will be included in IEEE Xplore
- › Extended version of selected papers may be considered for publication in the IEEE Trans. on Information Technology in Biomedicine (SCI, EI, Scopus)
- › Student Paper Competition sponsored by Mindray

Organized and Sponsored by:  
IEEE Engineering in Medicine and Biology Society  
Key Lab for Health Informatics of Chinese Academy of Sciences  
CAS-SIAT Institute of Biomedical and Health Engineering (IBHE)

Technically Co-sponsored by  
The Chinese University of Hong Kong

Technically Supported by:  
IEEE-EMBS Hong Kong Chapter  
IEEE-EMBS Malaysia Chapter  
IEEE-EMBS Shenzhen Chapter

## Invited Speakers and Panelists (ordered alphabetically)



Metin Akay  
USA



Robert Butera  
USA



Atam P. Dhawan  
USA



Bin He  
USA



Michael Hughes  
UK



Andrew Laine  
USA



Z.P. Liang  
USA



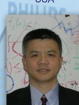
Nigel Lovell  
Australia



Michael Neuman  
USA



Shuming Nie  
USA



X.C. Pan  
USA



José C. Principe  
USA



Christian Roux  
France



Milan Sonka  
USA



Nitish Thakor  
USA



May D. Wang  
USA



Bruce Wheeler  
USA



G.Z. Yang  
UK



Gudrun Zahmann  
Germany



Y.T. Zhang  
China

## Themes

The conference covers a broad spectrum of themes including but not limited to the following topics:

### I) Acquisition, Transmission, Processing, Storage and Retrieval of Health Information

- Wearable and/or implantable systems
- Body sensor/area networks (BSN /BAN)
- Energy scavenging technologies
- Wireless Health end-to-end quality of service
- Diagnostic and therapeutic systems
- Internet and web solutions for healthcare delivery
- Multi-scale modeling and information fusion;
- Ambient assisted living, smart homes and community healthcare systems
- Electronic health records, interoperability and connectivity
- Picture archive and communication systems (PACS)
- Health information security and privacy
- Context-aware retrieval

### II) Biologically Inspired Informatics

- Virtual reality in medicine and surgery
- Bio-inspired robotics and biomimics
- Brain-computer interfacing and human-computer interfacing

### III) Informatics in Biological Systems

- Neuroinformatics
- Genomics, proteomics, metabolomics and trans-omics
- Bioinformatics, computational biology and systems biology
- Data mining in omics study
- Next generation genome sequencing
- Epigenetic and functional genomics
- Personalized biomarkers, therapy and drug
- VLSI implementation and integration of data-mining methods for the analysis of bio-medical data
- Visualization of bio-medical data

### IV) Medical Imaging Informatics

- Real-time imaging
- Multimodal imaging
- Molecular imaging
- Image and video data compression
- Archive integrity and security

### V) Health Informatics Applications

- Cardiovascular informatics
- Applications in the early diagnosis and treatment of cancers
- Informatics for assistive technologies
- Sport informatics
- Health informatics for first responders and service personnel

### VI) Deployment of m-Health and Telemedicine

- p-health, m-health, u-health, e-health systems
- Deployment issues

Photos from previous  
ITAB, BHE and MDBS  
Conferences in HK and Shenzhen

