



## 2008 International Conference on BioMedical Engineering and Informatics

28 - 30 May 2008, Sanya, Hainan, China

<http://www.tjut.edu.cn/BMEI2008>

### Call for Papers, Invited Session Proposals & Sponsorship

The International Conference on BioMedical Engineering and Informatics (BMEI2008) will be held from 27 to 30 May 2008 in Sanya, Hainan, China. The aim of BMEI2008 is to bring together researchers working in many different areas of biomedical engineering and informatics to foster international collaborations and exchange of new ideas. **The BMEI 2008 conference proceedings will be published by the IEEE and will be indexed in both EI and ISTP. Selected good papers will be recommended for publication in SCI/SCI-E indexed international journals.** Keynote speakers include Professor Maciej Ogorzalek, President-Elect, IEEE Circuits and Systems Society, Editor-in-Chief, IEEE Circuits and Systems Magazine, IEEE Fellow; Dr. Roderic Pettigrew, Director of National Institute of Biomedical Imaging and Bioengineering (NIBIB), USA; Professor Jing Bai, IEEE Fellow. The BMEI 2008 will be co-located with the 2008 Congress on Image and Signal Processing (CISP 2008: <http://www.tjut.edu.cn/CISP2008>), in order to promote cross-fertilization between the broad areas of biomedical engineering and signal processing.

Submissions of papers describing original work in, but not limited to, the following topics are enthusiastically encouraged.

#### BMEI 2008 Topics

##### BioMedical Engineering

Biomedical imaging, image processing, and visualization; Biomedical signal processing and analysis; Medical data storage and compression techniques; Biomedical modeling; Biomedical effects of electromagnetic radiation; Electrotherapy and radiotherapy; Biomedical instrumentation, devices, sensors, artificial organs, and nano technologies; Biomedical materials and tissue engineering; Biomedical robotics and mechanics; Rehabilitation engineering; Clinical engineering and surgical planning; Wearable and real-time health monitoring systems; Mobile and wireless technologies in healthcare systems; Biomedical education; Biomedicine in industry and society.

##### Bioinformatics, Systems Biology, and Medical Informatics

Computational genomics and proteomics; Applications of artificial intelligence, machine learning and data mining in bioinformatics and medical informatics; Complexity of biological systems; Biologically-inspired agents and software; Computational drug discovery and computer-aided drug design; Biological system dynamics and simulations; Telemedicine; Application of Systems Science in biomedicine; Personalized and predictive medicine and healthcare; Standards and ontology in biomedical informatics; Synergy between bioinformatics and medical informatics; Evaluation and benchmarking, e.g., bio-statistical and medical statistical methods; Applications of operations research and management science in medicine and health care; Healthcare information systems.

##### Informatics: Fundamental Technologies Important to Medicine and Biology

Database systems; Computer security and privacy; Software engineering; Computer architecture; Distributed systems; Graphics and animation; Computer communications and networking; Artificial intelligence; Other topics in informatics

#### Organizing Committee

<b>General Co-Chairs</b>	Hua Zhang, Tianjin University of Technology, China
<b>Program Committee</b>	Yonghong Peng, University of Bradford, UK
<b>Co-Chairs</b>	Yufeng Zhang, Yunan University, China
<b>Local Arrangement Chair</b>	Huaibin Wang, Tianjin University of Technology, China
<b>Proceedings Chair</b>	Xianbin Wen, Tianjin University of Technology, China
<b>Publicity Co-Chairs</b>	Tim Kovacs, University of Bristol, UK
<b>Sponsorship Chair</b>	Pengtao Wang, Tianjin University of Technology, China
<b>General Inquiries</b>	<a href="mailto:bmei2008@tjut.edu.cn">bmei2008@tjut.edu.cn</a>

#### Important Dates

<b>Submissions and Invited Session Proposals:</b>
1 December 40 November 2007
<b>Acceptance Notifications:</b>
15 December 2007
<b>Final Versions / Author Registration:</b>
15 January 2008
<b>Conference:</b>
28-30 May 2008

Prospective authors are invited to submit manuscripts written in English. All submissions will be peer-reviewed by experts in the field based on originality, significance, quality and clarity. Authors should use the Latex style files or MS-Word templates obtained from the conference site to format their papers. Authors should submit pdf files of their manuscripts via the [online submission system](#). One Best Paper Award and one Best Student Best Paper will honour the author(s) of papers of exceptional merit dealing with a challenging subject related to the conference technical scope. The prize shall be \$150 per paper and a certificate to be issued.

#### ABOUT SANYA

Sanya is one of China's premier tourist destinations, with white-sand beaches, charming scenery, hot-springs, and popular activities such as scuba-diving and rafting. More than 20 ethnic groups, including Han, Li, Miao, and Hui, inhabit Sanya and make Sanya a wonderful place to appreciate the various cultures of China.

#### INVITED SESSIONS

To promote international participation of researchers from outside the country/region where the conference is held (i.e., China), foreign experts are encouraged to propose invited sessions. Each invited session should have at least 4 papers. Invited session organizers will solicit submissions, conduct reviews and recommend accept/reject decisions on the submitted papers. All invited session organizers will be acknowledged in the conference proceedings. Each invited session proposal should include the following information: (1) the name(s) and contact information of invited session organizer(s); (2) the title and a short synopsis of the invited session. Please send your proposal to the respective Program Co-Chair: Yonghong Peng (bioinformatics, systems biology and medical informatics); Yufeng Zhang (biomedical engineering).

