The 2nd International Conference on Image and Signal Processing (CISP 2009) and the 2nd International Conference on BioMedical Engineering and Informatics (BMEI 2009) will be jointly held in Tianjin, China. Tianjin is one of the four municipalities in China. It is a financial and commercial center in North China, which is known for its numerous travel resources and rich history, such as Gu Wenhua Jie, Dagu Emplacement, Huangyaguan Great Wall, Dule Temple, Haihe River, Panshan Mountain and Food Street. Tianjin Binhai New Area lies in the center of the Circum-Bohai Region and the eastern seaboard of Tianjin. It is located in the juncture of the Beijing-Tianjin City Belt and the Circum-Bohai City Belt. It is the gateway to North China, Northeast China, and Northwest China. Lying in the center of Northeast Asia, it is the nearest point of departure of the Eurasian Continental Bridge.

CISP'09-BMEI'09 aims to provide a high-level international forum for scientists and researchers to present the state of the art of multimedia, signal processing, biomedical engineering, and biomedical informatics. The previous CISP’08-BMEI’08 attracted over 2600 submissions from more than 30 countries. The registration fee of US$420 includes lunches, dinners, and banquet. CISP’09-BMEI’09 is technically co-sponsored by the IEEE Engineering in Medicine and Biology Society.


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

### CISP

**Image and Video Processing:** Coding and transmission; Image enhancement & noise filtering; Image representation and transforms; Image restoration; Feature extraction; Multi-resolution processing and wavelets; Morphological image processing; Color image processing; Watermarking & authentication; Interpolation & super-resolution; Geometric transformations; Image segmentation; Motion analysis & tracking; Neural networks and fuzzy processing; Image and video databases; Content-based retrieval; Computer and machine vision; Pattern recognition; Imaging techniques & 3D imaging; Remote sensing; Image quality assessment; Sampling and quantization; Scanning; Color reproduction and halftoning; Volume and surface rendering; Display systems and printing; Forensics & security; Image and video processing applications; Other topics in image and video processing

**Signal Processing:** Analog and digital signal processing; Signal representation and transforms; Statistical signal processing; Filter design & digital filters; Multi-rate and wavelet signal processing; Coding techniques; Adaptive signal processing; Spectral analysis; Time-frequency signal analysis; Speech & language processing; Signal modeling, identification & prediction; System identification; Biomedical signal analysis; Design and implementation of DSP systems; Software development; Intelligent signal processing; Acoustics; Multi-dimensional signal processing; Sensor array and multi-channel systems; Signal processing applications; Other topics in signal processing

### BMEI

**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; Other topics in biomedical engineering

**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; Other topics in bioinformatics, systems biology, and medical informatics

**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

**General Chair:** Xianbin Wen, Tianjin University of Technology, China  
Hua Zhang, Tianjin University of Technology, China

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**Proceedings Chair:** Yuanquan Wang, Tianjin University of Technology, China

**Publicity Chair:** Degan Zhang, Tianjin University of Technology, China

**Sponsorship Chair:** Jianqi Liu, Tianjin University of Technology, China

### Deadlines

- **Paper Submission:** 20 April 2009  
- **Decision Notification:** 20 May 2009  
- **Author Registration & Final Paper:** 20 June 2009

### General Inquiries

bmei2009@tjut.edu.cn

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.