

International Conference on Biomedical Engineering and Biotechnology

ICBEB 2012 (International Conference on Biomedical Engineering and Biotechnology), sponsored by IEEE, co-sponsored by University of Macau, IEEE Macau Section and Macau Society of Biomedical Engineering, will be held on May 28th to 30th in Macau, China.

ICBEB 2012 aims to provide a high-level international forum for researchers and experts from around the world to present and discuss recent advances, new techniques and applications in the fields of biomedical engineering and biotechnology.

All the conference papers will be published as proceedings, included in the IEEE Xplore® online, and indexed by EI Compendex. Some excellent papers will be selected and sent to SCI Magazines.

TOPICS

Bioinformatics, Computational Biology & Systems Biology

- Microbial Biotechnology and Nanotechnology
- Structural Bioinformatics and Computational Proteomics
- Bioinformatics Algorithms for Genomics, Proteomics, Metabolomics and Lipidomics
- Computational Physiology and the Physiome Project
- Advances in Theory and Clinical Applications of Biological Network Studies
- Current Progress in Modeling Regulatory, Metabolic and Proteomic Networks
- Biological and Medical Data Management, Ontology, Mining and Visualization
- Emerging Topics in Computational Bioinformatics and Systems Biology Molecular Imaging

Biomedical Signal Processing

- Time-Frequency and Time-Scale Analysis
- Signal Processing and Physiological System Modeling
- Analysis of Biomedical Signals
- Signal Pattern Classification
- Principal Component Analysis and Independent Component Analysis
- Adaptive and Parametric Filtering
- Coupling and Synchronizations
- Algorithms for Data Mining and Data Processing

Biomedical Imaging & Image Processing

- Magnetic Resonance Imaging
- Ultrasound Imaging
- Optical Imaging, Microscopy and Infrared Imaging
- X-ray, CT, PET and SPECT
- Electrical Source, Impedance, Elasticity Imaging and Other Modalities
- Image Reconstruction and Retrieval
- Image Processing (Filtering, Enhancement, Segmentation, Registration, Classification, Compression and Coding)
- Image Visualization and Volume Rendering
- Functional Imaging

Cellular & Tissue Engineering

- Molecular and Cellular Bioengineering
- Cellular Force Transduction
- Cellular Engineering
- Protein Science and Engineering
- Nucleonic acid and DNA technology
- Gene Expression
- Gene Microarray
- Data Analysis Methods in Gene Mapping

Other related topics

- Cardiovascular & Respiratory Systems Engineering
- Surgical Simulation and Simulator
- Neural & Rehabilitation Engineering
- Biomaterials
- Bio-Robotics & Biomechanics
- Therapeutic & Diagnostics Systems, Medical Device Design
- Healthcare Information Systems & Telemedicine
- Any Novel Progress and Method in Biomedical Engineering

Important Dates:

Papers Due: Nov. 30, 2011
Conference: May 28th-30th, 2012

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