

CME2010

2010 IEEE/ICME INTERNATIONAL CONFERENCE
ON COMPLEX MEDICAL ENGINEERING

CALL FOR PAPERS

Progress in science and engineering has created cutting-edge technologies in medicine and health areas. The aim of The 2010 International Conference on Complex Medical Engineering (CME2010) is to bring together researchers, engineers and practitioners from diverse fields to stimulate the future research and development of new theories, approaches, and tools in the emerging field of Complex Medical Engineering.

The major objectives of the conference are to present state-of-the-art research, encourage academic and industrial interaction, and promote collaborative research in broad science, engineering and medicine areas. CME2010 will be held at the Gold Coast, Australia, July 13-15, 2010.

JULY 13-15 • 2010

GOLD COAST • AUSTRALIA

IMPORTANT DATES

Full paper submission: January 5, 2010
Acceptance notification: February 15, 2010
Registration + Copyright: March 15, 2010

CONFERENCE CHAIRS

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FOR FURTHER INFORMATION

Please visit our CME2010 Website:
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www.biolab.mech.okayama-u.ac.jp/CME2010

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SCOPE AND TOPICS

(included, but not limited to)

Biomedical Image Processing

- Image reconstruction
- Image segmentation and analysis

Biomedical Optics

- Biophotonics and multiphoton microscopy
- Photonic therapeutics, diagnostics and instrumentation
- Tissue optics and diffuse optical imaging

Biomedical Robotics and Biomechatronics

- Medical robotics
- Nursing robots

Biosensors and Bio-analytics

- High-throughput screening methods
- Micro- and nano-biosensors
- Micro-array technologies
- Novel biosensing modalities
- Protein sorting methods

Cognitive Neuroscience and Technology

- Brain-machine interfaces
- Clinical monitoring EEG, TMS etc
- Imaging modalities for cognition
- Technologies for human vision

Complex Bioinformatics and Systems Biology

- Bio-statistics and data mining
- Cybernetics
- Genomics and proteomics
- Systems biology

Information and Communication Technology in Medicine

- Artificial intelligence in medicine/ medicinal science
- Data mining in medicine
- Medical knowledge networks and management
- Medical web intelligence and telemedicine

Nano-techniques and Materials in Medicine

- Nano Bio-materials
- Nano/Micro Bio-robotics

Neuroscience and Neural Technology

- Imaging neuroscience
- Neural control
- Neurology and signal processing
- Theoretical and computational neuroscience

Sustainable Materials and Techniques in Medicine

- Environment-powered devices
- Smart materials

Technology in Rehabilitation

- Home rehabilitation
- Neurorehabilitation
- Rehabilitation robotics

Other Topics

- Aged and community care informatics
- Allied health
- e-Health