

Biomedical Circuits and Systems Conference
 November 20 - 22, 2008, Baltimore, MD

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Call for Papers

The recent years have seen an explosion of research activities in the areas of life sciences, physical sciences and engineering with application to medical problems. Such activities require inter-disciplinary collaborations among scientists, engineers, medical researchers, and practitioners to solve complex real world problems. The collaboration between The Circuits & Systems Society and Biotechnology will create innovative solutions for today's health problems and set new challenges for the Circuits & Systems Society to build new bridges at the frontiers of Biomedical Engineering. The IEEE BioCAS 2008 conference is aiming at *Intelligent Biomedical Systems*. For information see: www.biocas2008.org.

The conference will be multidisciplinary with a mix of insight tutorials and technical sessions. This unique combination will enable members of the CAS community to broaden their insight in the new and developing area of medical technologies. In particular the tutorials, which are included with full registration, will be geared towards medical application areas, including an introduction to tissue and stem cell engineering, bioMEMS, bionano technology, microfluidics, genomics and personalised healthcare. Each of these and will be presented by experts in the respective fields, enabling key bridges to CAS platforms to be clearly identified.

This IEEE BioCAS 2008 Conference is designed to bring together engineers, scientists, medical researchers and practitioners to create inter-disciplinary bonding. It covers a wide range of topics:

- Innovative circuits for medical applications
- Body Area Networks/Body Sensor Network
- Implantable electronics
- Biosensor devices and interface circuits
- Biosignal processing
- Biomedical imaging and image processing
- BioMEMS
- Biomedical instrumentations
- Biomedical aids to the disabled
- Lab-on-chip
- Telecare systems
- Wireless technology for medical apps
- Bioinformatics
- Medical information systems

The complete 4-page paper (in standard IEEE double-column format), including title, authors' names, affiliations and e-mail addresses, and a short abstract are requested. Papers must be submitted electronically in PDF format through www.biocas2008.org. Only electronic submissions will be accepted. *IEEE Transactions on Biomedical Circuits and Systems will publish a Special Issue on the BioCAS 2008 Conference*. Extended versions of the best papers, based on both review scores and oral/poster presentation evaluations, will be invited for the Special Issue.

Authors' Schedule:

Deadline for submission of papers	:	7	July	2008
Notification of paper acceptance	:	1	September	2008
Final submission	:	6	October	2008

Technical Programme Committee:

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