

BioCAS 2023 is a premier international forum for presenting interdisciplinary research and development activities at the crossroads of medicine, life sciences, physical sciences and engineering that shape tomorrow's medical devices and healthcare systems. This conference brings together members of our communities to broaden their knowledge in emerging areas of research at the interface of life sciences and circuits and systems engineering. The three-day singletrack program of BioCAS 2023 is multidisciplinary with topics including but not limited to:

BIOMEDICAL TECHNOLOGIES

- Biosensor Devices and Interface Circuits
- Body Area/Sensor Networks and Wireless Health Monitoring
- Implantable and Wearable Health Devices and systems
- Bio-Inspired and Neuromorphic Circuits and Systems >>
- **Electronics for Neuroscience**
- Innovative Circuits for Medical Applications
- Biofeedback, Neuromodulation, and Closed-Loop Systems >>
- Assistive, Rehabilitation, and Quality of Life Technologies **>>**
- Biotelemetry and Energy Harvesting/Scavenging Circuits and Systems >>
- Lab-on-Chip / BioMEMS / Point-of-Care Devices >>

BIOMEDICAL APPLICATIONS

- Artficial Intelligence of Things (AIoT) for Healthcare
- Biomedical Imaging and Image Processing >>
- Bio-signal Recording, Processing, and Machine Learning >>
- Genomics and Systems Biology >>
- **Human-Machine Interfaces** >>
- Medical Information Systems and Bioinformatics

EMERGING TECHNOLOGIES

- COVID-19 diagnosis
- Flexible devices and circuits for biomedical applications
- Brain-computer interface

SUBMISSION GUIDELINES

Prospective authors are invited to submit full length papers (in standard IEEE double-column format) in a maximum of 5 pages, of which 4 are for technical content including text, figures, and references (if any), and with an optional 5th page containing only references. Papers must be submitted electronically in PDF format through 2023.ieee-biocas.org

IMPORTANT DATES

Friday, April 21, 2023 Special Session Proposal Deadline

Friday, June 9, 2023 Regular Paper Submission Deadline

Friday, July 14, 2023

Live Demo Submission Deadline Friday, August 11, 2023

Author Notification Date Friday, August 24, 2023

BioCAS 2023 Student Travel Grants **Application Deadline**

Friday, September 1, 2023 Author Registration/Final Paper

Friday, October 6, 2023

Conference Registration

Submission Deadline

ORGANIZERS

General Co-Chairs

Yong Lian

York University, Canada

Xiao-Ping Zhang

Toronto Metropolitan University

Danilo Demarchi

Politecnico di Torino, Italy

Technical Program Co-Chairs

University of Alberta, Canada

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