

Bi+CAS 2018

Biomedical Circuits and Systems Conference

Advanced Systems for Enhancing Human Health

Cleveland, Ohio, USA | October 17-19, 2018

Call for Special Sessions

The BioCAS 2018 Organization Committee invites proposals for Special Sessions to be conducted on October 18-19, 2018, the second and third days of the **2018 IEEE Biomedical Circuits and Systems Conference (BioCAS 2018)** in Cleveland, Ohio, USA. Each Special Session should contain 5 lecture presentations and last ~1.5 hours, including Q&A.

Special Sessions are an integral part of the BioCAS Conference where presenters have the opportunity to share their expertise on a focused or topical research area with fellow researchers and those who wish to discover this area. We are soliciting proposals for areas of academic and industrial/applied interest. These areas may be established or may be emerging, with profound and/or new insights thereto that are best articulated by means of a focused set of oral presentations. Most importantly, Special Sessions should be interesting and engaging to the attendees.

BioCAS 2018 is particularly interested in Special Sessions that are related to the conference theme: **Advanced Systems for Enhancing Human Health**. Special Sessions in all the following areas of biomedical circuits and systems are welcomed:

Biomedical Technologies

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

Biomedical Applications

- Biomedical Imaging and Image Processing
- Biosignal Recording, Processing, and Machine Learning
- Genomics and Systems Biology
- Human-Machine Interfaces
- Medical Information Systems and Bioinformatics

Special Session Proposals

Please submit your Special Session proposal by email to all three Special Session Co-Chairs, with copy to pedram.mohseni@case.edu. The proposal should include a (maximum) two-page description of the Special Session (see below for details) and one-page professional biography of you that highlights **your qualifications, track record in the proposed subject area of the Special Session, and relevant previous experience in organizing such sessions**. In case you are co-organizing the Special Session with someone else, please include this information for both organizers. Your two-page proposal should contain the following information:

1. **Title and Abstract:** Propose a title and an abstract (short description) that allows conference attendees to quickly and accurately understand the topics that will be covered during the Special Session.
2. **Motivation and Focus:** Explain why your chosen topical area is important to the BioCAS community and what you hope attendees will learn by attending your Special Session.
3. **Description of the Special Session:** In this section, please provide a list of 5 contributed papers (including titles, authors with affiliations, and a short abstract) that together define the content of the Special Session. No more than 5 papers should be included, given the 1.5 hours available (including Q&A). **Furthermore, each Special Session co-organizer can contribute a maximum of 1 paper to the proposed Special Session.**

Participation in technical meetings is an excellent opportunity for lifelong learning, and BioCAS 2018 is committed to supporting the professional development of its attendees. Continuing Education Units (CEUs) will be available for BioCAS 2018 delegates attending technical sessions and participating in tutorials.

BioCAS 2018 Special Session Co-Chairs

Arindam Basu, Nanyang Tech. University, Singapore – arindam.basu@ntu.edu.sg

Pantelis Georgiou, Imperial College London, UK – pantelis@imperial.ac.uk

Soumyajit Mandal, Case Western Reserve University, USA – sxm833@case.edu

Important Dates

Special Session Proposal Submission: **April 23, 2018**

Special Session Proposal Acceptance Notification: **May 14, 2018**