

IEEE Design & Test

Special Issue on “Implantable Medical Devices and Applications”

Call for Contributions

A special issue of the IEEE Design and Test Journal (IEEE D&T) will be dedicated to Advanced Low-Power Biomedical Circuits and Systems (BIOCAS). Prospective authors are invited to submit their original unpublished research and application contributions. Comprehensive survey papers may also be considered for this special issue. Over the past decade, circuit techniques intended to build wearable and implantable medical devices (IMDs) such as biosensors and biostimulators were applied dealing with exponential increasing needs not only addressing various medical diseases but used to discover various unknown phenomena in neuroscience at various cell levels. Particularly in areas of brain sciences, and cognition as well as various neural pathologies. The recent development of BIOCAS techniques attracted attention of researchers from numerous fields of interests in order to solve the complexity of building heterogeneous microsystems and find out solutions on how to deal with the various bottlenecks of IMDs.

Topics of interest for this special issue covers but are not limited to:

- Implantable electronics,
- Brain-machine/-computer interfaces,
- Biosensor devices and interfaces,
- Body area/sensor networks
- Bioinspired/Biomimetic systems,
- Biofeedback : Sensing and treatment,
- Biomedical/Clinical imaging technologies
- Analog/Digital biosignal processing methods

Deadlines:

June 1st, 2015: Submission of Manuscripts

August 1st, 2015: Notification of Review Results

October 1st, 2015: Submission of Revised Manuscripts

December 1st, 2015: Submission of Final Manuscripts

Publication: January 2016 Issue

Paper Submission

The maximum length for the manuscript is 9-page IEEE double-column format, including figures, tables, references, and bios. Authors should specify in the first page of their manuscripts the corresponding author's contact and up to 5 keywords. Submission should be made via this website :

<https://mc.manuscriptcentral.com/dandt>

Corresponding Guest Editor

Mohamad Sawan, Professor
Polystim Neurotech Lab.
Polytechnique Montreal, Quebec, Canada
Tel +1 514 340 4722, ext: 5943
Email: mohamad.sawan@polymtl.ca

Guest Co-Editor

Shuenn-Yuh Lee, Professor
Department of Electrical Engineering
National Cheng Kung University
Tel +886 6 2757575, ext: 62323
Email: ieessyl@mail.ncku.edu.tw