

# Call for Paper

## Special Session on

# Biomedical Signal Processing and its Applications

SPIN 2016

3rd International Conference  
Signal Processing and Integrated Networks  
11 - 12 February 2016  
Department of Electronics and Communication Engineering  
ASET, Amity University, Noida Sec-125, Delhi-NCR



Technically Co-Sponsored by IEEE UP Section  
Sp/C Joint Chapter.  
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IEEE Conference record number # 37349

Biomedical signal processing involves the analysis of physiological signals through signal processing and machine learning techniques to provide useful information and intention of human. In recent years, the need for closer integration between biomedical signal processing and its application to the relevant fields as well for making clinical decisions have emerged very clearly.

This session will concentrate on the techniques for recording, visualization and analysis of biomedical signals involving electromyogram (EMG), electroencephalogram (EEG), electrocorticogram (ECoG), electrooculogram (EOG), electroretinogram (ERG), electrocardiogram (ECG), mechanomyogram (MMG) followed by their application in health care and control of assistive devices. The session will be soliciting state-of-the-art research papers in the following areas of interest:

- Biomedical signal processing and Analysis
- Application of biomedical signals for brain-computer interface, neuro-engineering, nonlinear dynamical analysis of the human physiological system and integration of sensory-motor characteristics aimed at the building of advanced prostheses and rehabilitation tools, wearable devices and clinical practice.

The aim of this special session is to provide a snapshot of emerging technologies in the area and to provide a platform for the researchers to exchange their findings (as full papers) for future collaborations as well to provide an opportunity to showcase the ongoing research work (as short papers) by the beginners and interact with experts in the area.

**Regular papers** each having a maximal length of 6 printed pages can be submitted following the instruction to authors available in the SPIN 2016 web-site (<http://amity.edu/spin2016/papsub&gui.html>). Only original and well-focused papers presenting previously unpublished work will be considered. Registration of the accepted papers will be following the instructions available at <http://amity.edu/spin2016/registration.html>.

### Important Dates

Paper Submission Deadline:  
7 November 2015

Acceptance Notifications: 21  
December 2015

Final Paper Submission:  
15 January 2016

Conference:  
11-12 February 2016

### Organizer of the Session

Nayan M Kakoty  
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### Program Committee

Samarendra Dandapat  
IIT Guwahati

Manas Kamal Bhuyan  
IIT Guwahati

Bikash Rai Das  
GNRC Hospital, Guwahati

Nitin Sahai  
North East Hills University

Moumita Roy  
IIIT Guwahati

**All accepted & presented papers of the Conference by duly registered authors, will be submitted to IEEE Explore Digital Library for Publication.**

The organizers will provide assistance to the delegates for sight-seeing in the Tourist Places, Delhi-NCR Region. Local guide volunteers (English Speaking) for sightseeing will be provided to the foreign delegates.



Akshardham Temple, Delhi



Taj Mahal, Agra



Lotus Temple, Delhi



Nainital Lake, Nainital