# Call for Contributions

**Submission:**
**1. Inform the Chair:** with the Title of your Contribution
**2. Submission URL:**
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SIGNAL+2018+Special
Please select Track Preference as **MLFORBSP**

Special track

## MLFORBSP: Machine Learning for Biomedical Signal Processing

### Chairs and Coordinators

Prof. Dr. Abdulhamit Subasi, Effat University - Jeddah, Saudi Arabia
absubasi@effatuniversity.edu.sa
Assist. Prof. Dr. Saeed M. Qaisar, Effat University - Jeddah, Saudi Arabia
sqaisar@effatuniversity.edu.sa
Anil Hazarika, Tezpur University, India
anilhazarika8@gmail.com

along with

**SIGNAL 2018**, The Third International Conference on Advances in Signal, Image and Video Processing
May 20, 2018 to May 24, 2018 - Nice, France
http://www.iaria.org/conferences2018/SIGNAL18.html

Biomedical signal processing involves the treatment and analysis of bio-signal measurements. It is done in order to provide useful information on which clinicians can make decisions. Novel signal processing methods have assisted to reveal information which entirely altered the approach different diseases previously were diagnosed. In order to analyze biomedical signals, biomedical engineers are using different type of signal processing and machine learning techniques. By using intelligent biomedical analysis tools, the signals can be analyzed by software to help physicians with greater insights to make better decisions in clinical assessments.

Nowadays, there is a great interest in machine learning applications in health, biomedicine, and biomedical engineering. The recent advances in biomedical signal processing and machine learning have brought an incredible progress to different areas in signal analysis and processing, including biometrics, medical data processing, etc. The application-oriented and data-driven bio-signal analysis and processing applications not only benefit from the machine learning algorithms, but also encourage the development of intelligent techniques.

The purpose of this special conference track is to present recent advances in signal processing and machine learning for biomedical signal analysis. We are targeting at original research works in this field, covering new theories, algorithms, implementations, and applications for signal and data analytics.

Potential topics of interests are related to recent advances in machine learning in signal analysis and processing.

**Prospective authors** are invited to submit original papers on topics including, but not limited to:

- EEG Signal Processing and Analysis
- ECG Signal Processing and Analysis
- EMG Signal Processing and Analysis
- Brain Computer Interface
- Human Machine Interfaces

- Neural Rehabilitation Engineering
- Signal processing for Big Data
- Information forensics and security
- The Internet of Things & RFID
- Machine learning for signal processing
- Signal Processing for Brain Machine Interface
- Time-frequency and Non-stationary Biosignal Analysis
- Biomedical signal processing
- Machine learning for signal processing
- Machine Learning in Biomedical Applications
- Biometrics with biomedical signals

## Important Datelines

- Inform the Chairs: As soon as you decided to contribute
- Submission:  ~~February 7, 2018~~ March 28, 2018
- Notification: ~~March 7, 2018~~ April 5, 2018
- Registration: ~~March 21, 2018~~ April 10, 2018
- Camera ready: ~~April 2, 2018~~ April 20, 2018

*Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.*

## Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

## Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

## Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org
- Conference proceedings are sent for indexing to ISI Thomson Reuters by Filodiritto/InFOROmatica Publisher, Italy
- Extended versions of the papers presented at MLFORBSP will be invited to MAKE Journal:
http://www.mdpi.com/journal/make/special_issues/biomedical



**machine learning & knowledge extraction**
an Open Access Journal by MDPI

**Paper Submission**
**https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SIGNAL+2018+Special**
Please select Track Preference as **MLFORBSP**

**Registration**
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

**Contacts**
Chairs:
Prof. Dr. Abdulhamit Subasi, absubasi@effatuniversity.edu.sa
SIGNAL logistics: steve@iaria.org