

Special Session No: SS01

ICCIC-2020

International Conference on Contemporary Issues in Computing

**Organized by The Electro Inventor, Saraju Villa, 5A Khalisa Kota Pally Birati,
Kolkata700051, India On 21st – 22nd March 2020.**

******* CALL FOR PAPERS *******

SPECIAL SESSION ON

APPLICATIONS OF MACHINE LEARNING FOR BIOMEDICAL SIGNAL AND IMAGE PROCESSING

SESSION ORGANIZERS:

Dr. Maheshkumar H. Kolekar, Associate Professor, Electrical Engineering Department, Indian Institute of Technology, Patna. mahesh@iitp.ac.in

Dr. Anirban Das, Professor, Department of CSE, University of Engineering & Management, New Town, Kolkata, anirban-das@live.com

SESSION DESCRIPTION:

Biomedical signals and image plays a vital role in patient healthcare. It aids in disease early detection, diagnosis, and treatment. The recent advances in biomedical signal and image processing in conjunction with machine learning is an important facet of today's research in health-care. This special session deals with the new advances in biomedical signal and image processing focuses on the new challenges in the fields of biomedical research and clinical practice. Recently deep learning techniques have found good application in disease diagnosis. The goal of this special season is to provide an opportunity to discuss the advancement in medical signal and image processing theories/algorithms/systems/solutions and technologies. Faculties from computer science, biomedical engineering and electrical engineering are encouraged to attend the special session. Students working on machine learning, signal and image processing will get immense benefit attending the session.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- **Biomedical signals processing for disease detection and prediction**
- **Medical image processing for disease detection and prediction**

- Machine learning in disease detection
- Deep learning in disease detection and prediction
- Time and frequency analysis of biomedical signal
- Different clustering techniques in machine learning
- Medical signal and image processing based computer-aided diagnosis systems
- image-guided therapy, treatment monitoring and planning
- 2D and 3D modeling of biomedical signal and image

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **APPLICATIONS OF MACHINE LEARNING FOR BIOMEDICAL SIGNAL AND IMAGE PROCESSING** *on or before December 31, 2019*. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT PREPARATION at <http://iccicstm.com/guide.php> and SUBMISSIONS at <http://iccicstm.com/papersub.php>. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **APPLICATIONS OF MACHINE LEARNING FOR BIOMEDICAL SIGNAL AND IMAGE PROCESSING** at the top (above paper title) of the first page of your paper.

* * * * *