Artificial Intelligence for Medical, Biomedical and Health Informatics (AIMBHI)

Details of Session Chair(s)

1. Dr. Sowmya. V  
   CEN, Amrita School of Engineering, Coimbatore,  
   Amrita Vishwa Vidyapeetham, India.

2. Dr. Vinayakumar Ravi  
   Center for Artificial Intelligence,  
   Prince Mohammad Bin Fahd University, Khobar, Saudi Arabia.

3. Dr. Gopalakrishnan. E.A.  
   CEN, Amrita School of Engineering,  
   Coimbatore, Amrita Vishwa Vidyapeetham, India.

4. Dr. Soman K.P  
   CEN, Amrita School of Engineering,  
   Coimbatore, Amrita Vishwa Vidyapeetham, India.

5. Dr. Tuan D. Pham  
   Center for Artificial Intelligence,  
   Prince Mohammad Bin Fahd University, Khobar, Saudi Arabia.

Aims & Scope:

In the current pandemic situation, healthcare is one of the primary and essential sectors which require data analysis for effective actions and policies to be adopted. This demands for the Artificial Intelligence (AI) based solutions which reduces the time involved in the conventional methods involving human efforts. It can also reduce the risks due to human intervention and helps to tackle the highly imbalanced ratio of the designated government officers to the public. Therefore, the special session is interested in the research articles under the main theme titled, "Artificial Intelligence for Medical, Biomedical and Health Informatics (AIMBHI)". The related sub-topics are given below, but it is not limited to the following:
Subtopics:

- Medical imaging.
- Computer-aided detection, hypothesis generation and diagnosis.
- Evidence-based medicine.
- Signal processing for healthcare.
- Natural language processing and text mining in healthcare.
- Machine learning and deep learning for healthcare.
- Transfer learning for healthcare.
- IoT in healthcare.
- Security in healthcare.
- Edge computing and Federated learning in healthcare.
- Explainable AI in healthcare.
- Big data and streaming analytics in healthcare.
- Healthcare with Software-Defined Networks.
- Adaptive decision-making unit for Healthcare.
- Methods for inputting, transmitting and processing data for e-health.
- Electronic medical records (EMR) and electronic prescription.
- Interoperability for personal Health systems.
- Data preprocessing, cleansing, management and mining.
- Evolutionary and longitudinal patient and disease models.
- Clinical workflow.
- Medication adherence and health monitoring.
- Evolutionary and longitudinal patient and disease models.
- Class imbalance solution of biomedical data.
- Adversarial training in medical imaging.
- Bioinformatics.
- Biomedical data visualization and representation.

Technical Programme Committee(s):

Dr. Mamoun Alazab, Charles Darwin University, Australia.
Dr. Uttam Ghosh, Vanderbilt University, USA.
Dr. Syed Ahmad Chan Bukhari, St. John's University, USA.
Dr. Ajintha Pathmanathan, ClinIQ Inc, USA.
Dr. Manish Dasyani, Cincinnati Children's Hospital Medical Center, USA.
Dr. Sherin Mary Mathews, University of Delaware, USA.
Dr. Ajay Kumara M. A, The Pennsylvania State University, PA, USA.
Dr. Kuljeet Kaur, École de Technologie Supérieure, Montreal, Canada.
Dr. Vijayakumar Varadarajan, University of New South Wales, Sydney, Australia.
Dr. M. Hassaballah, South Valley University, Egypt.
Dr. Ajay Arunachalam, Örebro University, Sweden.
Dr. Amir Sinaeepourfard, Norwegian University of Science and Technology (NTNU), Norway.
Dr. Quoc-Viet PHAM, Pusan National University, South Korea.
Dr. Syed Bilal Hussain Shah, School of Software, Dalian University of Technology, China.
Dr. Siddhaling Urolagin, Birla Institute of Technology & Science, Pilani - Dubai Campus, UAE.
Dr. Annappa B, National Institute of Technology, Karnataka, India.
Dr. Sree Ranjani Rajendran, Department of CSE, Indian Institute of Technology Madras, Chennai.
Dr. Pushpanjali Banik, Aribtek consulting & services llp, Bangalore India.
Dr. Nitin Gupta, National Institute of Technology Hamirpur, India.
Dr. Neeraj Kumar, Thapar Institute of Engineering and & Technology, India.
Dr. Gopinath Rajendiran, CSIR- Central Scientific Instruments Organization (CSIO), Chennai, India.
Dr. Tony Thomas Kallivayalil, Indian Institute of Information Technology and Management, Kerala, India.
Dr. Varun Bajaj, IIITDM, Jabalpur, India.
Dr. Chinmay Chakraborty, BIT Mesra, India.
Dr. Priya Ranjan, SRM AP University, India.
Dr. Thippa Reddy G, VIT University, India.
Dr. Suresh Chandra Satapathy, KIIT University, Orissa, India.
Dr. Anoop V.S, Rajagiri College of Social Sciences, Kerala, India.
Mr. Bhadran V K, CDAC, Thiruvananthapuram, Kerala, India.
Submission Procedure:

Researchers and practitioners are invited to submit papers through the below given easy chair link:

https://easychair.org/conferences/?conf=iccis20

Select the special session track from the listed track. All submissions must be original and may not be under review by another publication. The submitted papers will be reviewed on a double-blind and peer review basis.

Publications:

The after-conference proceeding of the ICCIS2020 will be published in Springer Book Series, ‘Lecture Notes in Networks and Systems’.

All inquiries should be directed to the attention of Session Chair:

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