



Call for Paper for Special Session on: "Machine Learning on Edge for Smart Health"

Wearables and Internet-of-Things (IoT) form two important blocks in smart health applications. Given their affordable cost for management these are trending and being adopted worldwide. In traditional cloud based healthcare solutions, the patient's data was analysed in cloud for long-term monitoring and prediction. With emergence of machine learning now wearable medical devices such as smartwatch are capable of performing prediction and short-term monitoring this infusing security benefits by dint of local data processing. Machine learning (ML) has emerged as enabling technology infusing smart decision making and intelligent data processing on edge devices. Such edge devices are often managed by a cloud server that acts as long-term decision maker providing a centralized yet scalable control over component devices. Edge computing is a distributed computing paradigm that leverages low-power embedded processors in an intermediary bridge between the client layer and cloud layer. Edge computing advancements helped in leveraging a middle layer for providing support for computation that can be offloaded from wearable and cloud and instead be done on edge devices. With opensource solutions such as Raspberry Pi, adopting edge computing for such application have become even easier.

The primary goal of the session is to promote academia and industry collaborations for R&D in data analytics, cloud, edge computing for ML based smart health. Even after years of research, the consumer centric scenarios face privacy and security challenges. Organizers aim to enhance collaboration between researchers, and practitioners working in this topic across the globe. This session is an interdisciplinary forum for presenting papers related to broader aspects of smart health. Researchers from academia, industry and government are invited to submit their original and previously unpublished work on related topics in this special session.

Session Chairs:

Harishchandra Dubey, Microsoft Corporation, Redmond, USA
Rabindra K. Barik, KIIT Deemed to be University

Topics of Interest:

Full length original and unpublished research papers based on theoretical or experimental contributions related to the below mentioned topics are invited for submission in this session:

- Cloud/Edge Computing for health big data analytics
- Fog/Mist/Mobile Edge Computing
- End-to-end deep learning for smart health applications
- Artificial intelligence
- Artificial neural networks
- Machine learning for smart health
- Deep learning and Cortical learning for smart health
- Deep learning based health related fitness devices, services and systems
- Internet of Things (IoT) and its application in smart health
- Big Data in health applications
- Big Data Analytics for connected health
- Data Sciences for smart health
- Intelligent Systems and their security
- Geospatial health applications
- Security and Privacy in health sector
- Wireless Sensor & Ad hoc Networks
- Wireless Body Area Network
- Fog computing based machine learning for blockchain in smart health applications

Publication:

All accepted and registered papers of this special session of the conference will be published in Advances in Intelligent Systems and Computing (AISC) Series, Springer. After the conference, some good quality papers registered and presented at ICCAN-2019 will be invited for further extension and resubmission for inclusion in various reputed journals (Elsevier, Springer, Inderscience, and Igi-Global etc.) of special issues.

Important Dates:

Full Paper Submission: 30th August 2019

Notification to Authors: 15th September 2019

Final Camera Ready Submission: 1st November 2019

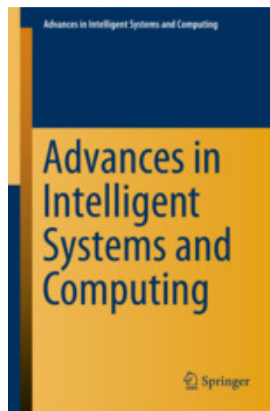
Conference Date: 14th -15th December 2019

Paper Submission Process:

Please submit your paper (in Ms-Wordformat) at email: rabindra.mnnit@gmail.com with 'Name of Special Session: *Machine Learning on Edge for Smart Health* mentioned in the subject line. Please visit <http://iccan.in/> for more details regarding this publication and to submit your work. If you have any questions or concerns, please do not hesitate to contact me. Thank you very much for your consideration of this invitation, and I hope to hear from you by **30th August, 2019!**

Best wishes,

E-mail ID: rabindra.mnnit@gmail.com; hadubey@microsoft.com



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