International Conference on Data-Processing and Networking (ICDPN-2024)

Date: 25th-26th October, 2024

ORGANISED BY : Institute of Technology and Business in České Budějovice, Near Prague, Czech Republic, Europe (Venue).

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

SPECIAL SESSION ON
Data-Processing and Networking in the field of Medical IoT

SESSION ORGANIZERS:
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SESSION DESCRIPTION:
In Medical IoT (IoMT), data processing and networking play a vital role in enabling the seamless exchange and analysis of health-related data. IoMT devices, such as wearables, sensors, and medical imaging equipment, generate vast amounts of data that require efficient processing and transmission. Advanced networking protocols and architectures, like edge computing and fog computing, facilitate the real-time processing and analysis of this data, enabling healthcare professionals to make timely and informed decisions. Moreover, secure data-processing techniques, such as encryption and federated learning, ensure the privacy and integrity of sensitive medical information. The convergence of data processing and networking in IoMT enables remote patient monitoring, telemedicine, and personalized healthcare, ultimately revolutionizing the healthcare landscape. As IoMT continues to evolve, advancements in data processing and networking will be crucial in unlocking its full potential and improving patient outcomes.

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

1. **Real-time Data Analytics for Medical IoT Devices**
2. **Machine Learning Algorithms for Health Data Processing**
3. **Edge Computing for Medical IoT Devices**
4. **Data Fusion and Integration in Medical IoT Systems**
5. **Privacy and Security in Medical Data Processing**
6. **Low-Power Wide-Area Networks (LPWANs) for Medical IoT**
7. **Wireless Body Area Networks (WBANs) for Health Monitoring**
8. **IoT Network Architecture for Medical Device Integration**
9. **5G Networks for Remote Healthcare Services**
10. **Network Security and Encryption for Medical IoT Data**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[Data-Processing and Networking in the field of Medical IoT]** *on or before* **[3th August 2024]**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at **https://www.icdpn-conf.com/Downloads**. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**Session Name**] at the top (above paper title) of the first page of your paper.

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