International Conference on Data-Processing and Networking (ICDPN-2025)

Date: 7th – 8thNovember, 2025

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

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

SPECIAL SESSION ON

Deep learning with mobile edge data analytics for Healthcare applications

SESSION ORGANIZERS:

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EDITORIAL BOARD: (Optional)

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SESSION DESCRIPTION:

Applying Mobile edge Data Analytics in **Bioinformatics and Medicine** is a comprehensive reference source that overviews the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to the healthcare field. Biologists no longer use traditional laboratories to discover a novel biomarker for a disease; rather they rely on huge and continuously growing genomic data made available by various research groups. The data size in bioinformatics is increasing dramatically in the recent years. Bioinformatics data is geographically distributed all over the world. While part of these data may be transferred over the Internet, the remaining is not transferable due to their size, cost, privacy, and other ethical issues. This sometimes forces to perform part of the analysis remotely and share the results. Therefore, big data problems in bioinformatics are not only characterized by volume, velocity, and variety, but also by geographically distributed data. In

order to tackle these challenges of big data in bioinformatics, cloud computing technologies have been used, with a lot of success. The best policy is to use cloud for both data store as well as for computation. . It is an intentional outcome that Cloud computing is not essential for analyzing Big Data. Rather, it is argued that for the optimized utilization of IT, it is required to choose the best architecture for Bioinformatics. As technology evolves and electronic data becomes more complex, digital medical record management and analysis becomes a challenge. In order to discover patterns and make relevant predictions based on large data sets, researchers must find new methods to analyze and extract relevant health information. The benefits of big data analytics in the healthcare sector are assumed to be substantial, and early proponents have been very enthusiastic, but little research has been carried out to confirm just what those benefits are, and to whom they accrue. The rapidly expanding field of big data analytics has started to play a pivotal role in the evolution of healthcare practices and research. It has provided tools to accumulate, manage, analyze, and assimilate large volumes of disparate, structured, and unstructured data produced by current healthcare systems. Big data analytics has been recently applied towards aiding the process of care delivery and disease exploration

RECOMMENDED TOPICS:

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

- Deep learning methods for applications in object detection and identification, object tracking, human action recognition, cross-modal and multimodal data analysis
- High performance Computing systems for applications in Finance, Autonomous driving, Healthcare and recommendation
- Hypersepctral data analysis and intelligent systems
- Microarray data analysis, Sequence analysis, genomics based analytics, Disease network analysis, Techniques for big data Analytics and health information technology
- Deep Learning and Cross-Media Methods for Big Data Representation
- Mobile edge computing for Large-scale multimodal data acquisition techniques
- Personal Big data driven approaches to collect and analyze large volumes of information from emerging technologies (e.g., IoT, remote sensors, wireless sensor networks, RFIDs, mobile)
- Mobile edge computing techniques for healthcare applications
- Swarm intelligence big data computing for healthcare applications

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[Deep learning with mobile edge data analytics for Healthcare applications]*on or before*[30th MAY 2025].** 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 [Deep learning with mobile edge data analytics for Healthcare applications] at the top (above paper title) of the first page of your paper.

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