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
Role of AI and Machine Learning in Biomedical Engineering

SESSION ORGANIZERS:

1. Dr. Gurmeet Singh (PhD IITD, Associate Professor, GTBIT
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2.Dr. Ramandeep Singh, Scientist-D, Neuro-engineering Lab, Department of Neurosurgery, AIIMS, New Delhi
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EDITORIAL BOARD: (Optional)
[Name, University or Organization, Country, e-mail]

SESSION DESCRIPTION:

This special session will explore the transformative impact of AI and machine learning on biomedical engineering, focusing on advancements in biomedical instrumentation, neuroscience, biomedical imaging, biomechanics, surgery, and wearable health technologies. We will discuss bioinspired algorithms, the integration of AI in rehabilitation engineering, and the ethical and regulatory challenges surrounding AI-driven biomedical technologies. The session aims to highlight cutting-edge research and foster collaboration among experts in these rapidly evolving fields.

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

Biomedical Instrumentation

Bioinspired Algorithms

AI and ML in Neuroscience

AI and ML in Biomedical Imaging

AI and ML in Biomechanics

AI and ML in Surgery

AI and ML in Wearable Health Technologies

AI and ML in Rehabilitation Engineering

Ethical and Regulatory Issues in AI-Driven Biomedical Technologies

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[session name]** *on or before* **[30th July 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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