ICAIN-2024
International Conference on Artificial Intelligence and Networking

Organized by
Guru Tegh Bahadur Institute of Technology (GTBIT),
affiliated to
Guru Gobind Singh Indraprastha University (GGSIPU), Delhi
in association with
Portalegre Polytechnic University & Institute of Technology and Business in České Budějovice, Czech Republic
&
Keshav Mahavidyalaya, University of Delhi

24th - 25th September 2024

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

SPECIAL SESSION ON

Machine Learning in Network Optimization

SESSION ORGANIZERS:

Dr. Deepika Bansal, Maharaja Agrasen Institute of Technology, India, deepikabansal@mait.ac.in

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SESSION DESCRIPTION:

This session will focus on the integration of machine learning (ML) techniques in network optimization, showcasing the latest advancements and practical applications. Attendees will explore how ML algorithms enhance network performance by predicting traffic patterns, automating configurations, and mitigating bottlenecks. Key topics will include the use of supervised and unsupervised learning for traffic management, security enhancement, and latency reduction. Real-world case studies will demonstrate the successful deployment of ML models in various network environments, from traditional telecommunications to emerging 5G and IoT systems. This session aims to provide a comprehensive understanding of the challenges and solutions in adopting ML for intelligent network optimization, highlighting its potential to transform the industry.

RECOMMENDED TOPICS:

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

- **Predictive Traffic Management Using Machine Learning**

- **Automated Network Configuration and Management**

- **Anomaly Detection and Security Enhancement**

- **Latency Reduction Techniques through Machine Learning**

- **Adaptive Quality of Service (QoS) in Networks**

- **Machine Learning for 5G and IoT Network Optimization**

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.icain-conf.com/downloads. All submitted papers will be reviewed on a double-blind, peer-review basis.

NOTE: While submitting a 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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