ICANTCI-2024
1ˢᵗ International Conference on Advanced Network Technologies and Computational Intelligence

Organized by

Department of Computer Applications, Chitkara University, Punjab, India in association with City University, Malaysia and University of Wollongong in Dubai, UAE

on

April 5-6, 2024

******************** CALL FOR PAPER ********************

SPECIAL SESSION ON

Machine Learning in Networking: Enhancing Security and Performance

SESSION ORGANIZERS:

Dr. Deepti Deshwal
Maharaja Surajmal Institute of Technology
New Delhi, India
deshwaldeepti@msit.in

Professor (Dr.) Pardeep Sangwan
Maharaja Surajmal Institute of Technology
New Delhi, India
sangwanpardeep@msit.in

Professor (Dr.) Aparna N. Mahajan
Maharaja Agarsen University
Himachal Pradesh, India
directormait2014@gmail.com

SESSION DESCRIPTION:

Machine learning has become a prevalent tool for mitigating diverse cyber-security threats and malicious activities amid a rise in both the volume and intricacy of cyber-attacks. Nevertheless, the susceptibility of machine learning models to attacks that taint the underlying data poses a significant challenge. The pivotal concerns in advancing cyber-physical systems lie in fortifying network security and bolstering the resilience of machine learning-driven network systems. We extend an invitation for contributions to a special session dedicated to exploring the application of state-of-the-art machine learning technologies in network security. We seek submissions that delve into the robustness of machine learning models when confronted with imperfect training samples

within untrusted cyber-physical systems. Additionally, we encourage research that leverages machine learning to detect various attacks and comprehends the vulnerabilities inherent in network systems. Submissions can encompass survey papers, theoretical studies, and experimental research.

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

- privacy and security

- anomaly detection

- machine learning

- network security

- cyber-physical systems

- anomaly detection

- vulnerability analysis

- Sentiment Analysis

SUBMISSION PROCEDURE:
Researchers and practitioners are invited to submit papers for this special theme session on **[Machine Learning in Networking: Enhancing Security and Performance]** *on or before* **[November 15, 2023]**. 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://ca.chitkara.edu.in/icantci2024/#. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **[Machine Learning in Networking: Enhancing Security and Performance]** at the top (above paper title) of the first page of your paper as a header.

* * * * * *