



PREMI'23

10th International Conference on Pattern Recognition and Machine Intelligence
December 12-15, 2023



Organized by
Machine Intelligence Unit, Indian Statistical Institute (ISI), Kolkata, India

CALL FOR PAPERS

Special Session on AI/ML in Information Security

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ISI Kolkata
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ISI Kolkata

Objective: The emerging all-digital lifestyle and “work anywhere” business environment, post the global pandemic has unleashed dangerous new cyber threats that are putting many businesses, critical infrastructure and even human lives at risk. Securing the “hyperconnected” world is the new cybersecurity motto but a formidable task in itself. The prime objective of this special session is to focus on practical use cases wherein artificial intelligence and machine learning algorithms are leveraged for detection and/or analysis of information security threats and issues. The special issue aims to showcase recent developments in this dynamic domain by bringing together researchers, practitioners, and industry experts to ponder over the state-of-the-art in machine learning applications in information security, identify key issues and opportunities and get insights into novel potential ways to address them. Potential topics include but are not limited to:

Topics:

- AI/ML for handling Mobile OS Vulnerabilities
- AI/ML for Network Threats
- Deep Learning for Intrusion Detection
- Natural Language Processing for Malware Detection
- Pattern Recognition for Malware Classification
- AI/ML in Cyber Forensics and Cryptography
- Phishing Detection using Machine Intelligence
- Software defects prediction using Machine Learning
- Code smell analysis using AI/ML
- Adversarial ML for Information Security
- Unsupervised ML for Pattern Recognition and Forgery Detection
- Role of AI/ML in real-time/zero-day attacks
- User Behavior Analysis via AI/ML algorithms
- Applications of AI/ML in blockchain
- Steganography and steganalysis based on machine-learning techniques

Proceedings: All accepted papers, whose author(s) register, would be included in the conference proceedings to be published by Springer International Publishing in its prestigious LNCS series.

Submission Procedure: Submissions for the special session must be made online through <https://equinocs.springernature.com/service/PREMI2023>. A separate submission track has been created in the submission portal, please ensure to choose **AI/ML in Information Security** at the time of submission. Papers should have maximum eight A4 pages (including figures, tables, and authors’ affiliations). For details, see PREMI [website](#).

Important Dates:

Paper submission: ~~April 30, 2023~~ May 10, 2023
Acceptance notification: June 30, 2023
Camera-ready submission: July 15, 2023

In case of any queries, please contact the session chairs:

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