



Security and Privacy in Machine Learning and Artificial Intelligence (AI)

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Deadline for manuscript
submissions:

30 October 2024

Message from the Guest Editors

In the past decade, ML&AI techniques have been increasingly deployed for automated decisions in many critical applications, such as autonomous vehicles, cybersecurity and many more. However, the use of ML&AI in security- and privacy-sensitive domains, where adversaries may attempt to mislead or evade intelligent mechanisms, creates new frontiers for security research. On the one hand, ML&AI technologies, especially deep learning, have been repeatedly proven to suffer from trust and interpretability challenges in the face of various attacks. On the other hand, to overcome the efficiency and application limitation of simple data encryption solutions, new security, and privacy technologies are necessary to exploit. Therefore, how to ensure the security and privacy of the systems enabled by ML&AI techniques is becoming urgent and challenging.

ML&AI Theoretical topics:

- ML&AI interpretability
- Adversarial learning

Application topics:

- Evasion attacks and defenses
- AI-based detection techniques, e.g. intrusion detection, anomaly detection, fraud detection, malicious codes, network anomalous behaviors, etc.





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Message from the Editor-in-Chief

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