Special Issue

Machine Learning: Applications for Cybersecurity

Message from the Guest Editor

This Special Issue aims to bring together cutting-edge research and practical applications of ML in the cybersecurity domain. We invite contributions that explore theoretical advances, novel algorithms, system implementations, case studies, and interdisciplinary approaches that leverage ML to strengthen cyber defense. Topics of interest include (but are not limited to), the following:

- Intrusion Detection and Prevention
  - ML-based network traffic analysis.
  - Anomaly and outlier detection for malicious behaviors.
  - Deep learning for detecting zero-day attacks.
- Malware and Ransomware Analysis
  - Automated malware classification and clustering.
  - Adversarial ML techniques for malware evasion and defense.
  - Behavioral analysis using ML models.
- Authentication and Access Control
  - ML for biometric and continuous authentication.
  - Risk-based adaptive authentication.
  - Insider threat detection using ML.
- Privacy-Preserving Machine Learning in Cybersecurity
- Adversarial Machine Learning in Security
- Cybersecurity in Emerging Technologies
- Human-Centered and Explainable AI for Cybersecurity

Guest Editor

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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