Special Issue

Novel Approaches for Deep Learning in Cybersecurity

Message from the Guest Editors

This Special Issue aims to highlight recent advances and novel methodologies in applying deep learning to cybersecurity, focusing on solutions that improve the accuracy, scalability, and resilience of intelligent security systems. We are particularly interested in contributions that explore real-time threat detection, adversarial robustness, privacy-preserving AI, and secure architectures for emerging environments such as cloud, edge, and IoT ecosystems. **Topics of interest include but are not limited to:**

- Deep learning models for intrusion detection and malware classification;
- Federated and privacy-preserving learning for cybersecurity;
- Adversarial machine learning and defense mechanisms;
- Secure biometric authentication and identity management;
- Multimodal threat intelligence systems;
- Explainable AI (XAI) in cybersecurity applications;
- Applications of GNNs, transformers, and generative models in cyber defense.

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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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