

Special Issue

Intelligent Defenses: The Role of AI in Strengthening Information Security

Message from the Guest Editor

The Special Issue *"Intelligent Defenses: The Role of AI in Strengthening Information Security"* explores how AI is transforming cybersecurity through adaptive and proactive defenses. As cyber threats grow more complex, AI technologies—such as machine learning, deep learning, and NLP—offer enhanced threat detection, anomaly analysis, and automated responses. This issue emphasizes AI's role in intrusion detection, threat intelligence, behavioral analytics, malware detection, and endpoint protection. It also considers key challenges including adversarial AI, data privacy, and the ethics of automated defense. We welcome contributions on innovative AI-based frameworks, algorithms, real-world applications, and case studies that improve cybersecurity across sectors. The goal is to foster collaboration between researchers and practitioners in shaping the next generation of intelligent and resilient digital defenses.

Guest Editor

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