Special Issue

Harnessing Machine Learning and AI in Cybersecurity

Message from the Guest Editors

Coordinated cyber attacks may cause cascading failures over large areas of critical systems operations and are credible threats. Artificial intelligence (AI)-based tools for cybersecurity have emerged to help information security teams reduce breach risks and improve their security posture efficiently and effectively. AI and machine learning (ML) have become critical technologies in information security, as they are able to quickly analyze millions of events and identify many different types of threats—from malware exploiting zero-day vulnerabilities to identifying risky behavior that might lead to a phishing attack or downloading malicious code. These technologies learn over time, drawing from the past to identify new types of attacks now. This Special Issue focuses on the practical aspects of cybersecurity, with an emphasis on interdisciplinary approaches. We welcome original contributions on novel threats, defenses and security, and autonomic security solutions. For more information, please see: mdpi.com/si/112076.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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