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Next-Generation Cybersecurity Solutions for Cyber-Physical Systems

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Message from the Guest Editors

In an era where technology intersects with every aspect of daily life, the security of cyber-physical systems has become paramount. These systems, which integrate computing, networking, and physical processes, are the backbone of critical infrastructure, manufacturing, healthcare, and more. The Special Issue, entitled 'Next-Generation Cybersecurity Solutions for Cyber-Physical Systems', seeks to explore innovative security strategies that leverage the latest advancements in technology to protect these essential systems from evolving threats.

Below are examples of suggested topics that would fit well with the theme of the Special Issue:

- AI-enhanced security protocols in CPS;
- Blockchain for secure CPS communications;
- Blockchain-enabled identity & access management in Cyber-Physical Systems;
- Quantum-resistant cryptography in CPS;
- Quantum machine learning for enhanced threat prediction in CPS;
- Federated learning for distributed security in CPS;
- Privacy preservation through federated learning in CPS;
- Machine learning-based anomaly detection in CPS;
- Secure IoT integration in CPS;
- Automated defense mechanisms in CPS;
- Automated and AI-driven security solutions in CPS.

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Message from the Editor-in-Chief

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