Special Issue

Cyber–Physical System: Security and Defense

Message from the Guest Editor

Cyber–physical systems (CPSs) integrate physical components, computational resources, and communication networks into unified, intelligent ecosystems that drive modern critical infrastructures, such as smart grids, intelligent transportation systems, and industrial control systems. As these systems increasingly connect to wider networks and the Internet of Things, they become high-value targets for sophisticated adversaries aiming to disrupt, sabotage, or gain illicit control over essential services. Consequently, security breaches in CPS can lead to physical harm, public safety issues, or large-scale operational failures, underscoring the urgent need for robust defense solutions.

This Special Issue seeks to bring together a diverse research community, including computer scientists, engineers, mathematicians, and practitioners, to explore cutting-edge techniques for safeguarding CPS against ever-evolving threats.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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