Artificial Intelligence, Security and Safety in Information Systems and Networks

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Message from the Guest Editors

Applications of information systems and networks are becoming increasingly common across the field of engineered systems, from cars and drones to manufacturing systems and medical devices, addressing prevailing societal changes and, increasingly, consumer demand. While information systems offer enormous economic, societal, and innovation potential, they have opened new avenues for safety, security, and privacy concerns that can adversely affect our lives and the environment. Due to the large number of connected devices and their ability to control critical physical assets, deliberate cyber attacks, and/or random failure events such as communication failure, and unforeseen bad interactions between connected information systems, all these factors can cause these systems to enter unsafe and dangerous physical states. The volume of attacks on information systems and networks is constantly increasing, and attack space is evolving frequently. Therefore, there is a pressing need to develop innovative techniques and methods to address safety, security, and privacy concerns in the new generation of information systems, thus assuring that they do not pose an unacceptable level of risk.

Special Issue

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Message from the Editor-in-Chief

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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