Special Issue

Proactive Defenses for Smart Ubiquitous Environments

Message from the Guest Editor

The recent innovations in ubiquitous computing supported by smart software-defined networks, computing clouds, IoT networks, and software-defined wireless communications drastically changed how we used to define smart cities. Unfortunately, the current realizations of such a unique mix rely mainly on ad-hoc integration of reactive contemporary defense tools that are totally unaware of each others' existence or operation. The lack of self and situation awareness, coordination, and intrinsic resilience within such tools opens the doors for devastating threats and attacks targeting such mission-critical applications. The recent attacks on smart environments demonstrated the clear inadequacy of the currently-deployed defense tools. This issue targets innovative novel defense solutions, mechanisms, and systems that can provide enhanced situation awareness, early detection, and proactive defense for mission-critical applications. The goal is to ensure the resilience of modern smart systems infrastructure, supporting networks, and applications against pervasive persistent attacks and threats.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As urban environments continue to evolve, Smart Cities serves as a key platform for sharing innovative research that addresses the complexities of modern urban life. Our journal provides a space for interdisciplinary dialogue and knowledge exchange on the latest advancements in smart city technologies and practices. We prioritize research that not only pushes the boundaries of scientific understanding but also has practical implications for improving urban living, sustainability, and governance.
We welcome contributions from diverse fields that bring fresh perspectives to urban challenges, from smart infrastructure and IoT integration to data-driven decision-making and sustainable development. Through a combination of rigorous peer-review and rapid publication, we aim to disseminate impactful research that fosters the development of smarter, more resilient cities.

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