

## Special Issue

# Advances in the Internet of Things (IoT): Attacks Detection and Privacy Protection

### Message from the Guest Editors

This Special Issue is an effort to highlight the critical security and privacy aspects of Internet of Things (IoT) devices that employ sensors to collect real-time data, utilize processing applications, and exchange information across connected devices over communication networks. These smart embedded devices provide core functionalities in diverse sectors, including healthcare, transportation, industrial control systems, agriculture, smart homes, smart cities, and smart enterprises, to name a few. The applications of IoT in smart cyber-physical systems lure malicious threat actors to exploit vulnerabilities through unique tactics, techniques, and procedures. It is essential to explore the design, implementation, and operational flaws in these web-enabled embedded systems. This Special Issue encourages scholars from all over the world to investigate IoT-based smart environments to identify attack patterns, enhance vulnerability detection mechanisms, optimize rule set generation, create state-of-the-art datasets, explore the integration of edge and fog computing, report enhanced privacy protection operations, and secure network and communication protocols.

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### Guest Editors

Dr. Sadaf Hina

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Prof. Dr. Luis Javier García Villalba

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### Deadline for manuscript submissions

20 November 2025



## Applied Sciences

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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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### Editor-in-Chief

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