

## Special Issue

# Novel Technologies and Applications for Internet of Things

### Message from the Guest Editors

The number of devices connected to the Internet of Things (IoT) is projected to increase from 18 billion in 2024 to almost 40 billion in 2033, instigated by an unprecedented number of application scenarios, such as smart cities, smart grids, smart farms, smart homes, smart health, and Industry 4.0 to name a few. This Special Issue seeks new and original contributions on novel technologies and applications for Internet of Things including, but not limited to, the following:

- Applications and technologies for smart cities, smart grids, smart farms, smart home, smart health, and Industry 4.0.
- Low-power wide-area network (LPWAN) technologies.
- Machine learning-based applications, protocols, and algorithms for IoT systems and applications.
- Edge AI technologies for IoT systems.
- Integration, management, and IoT systems and solutions for digital twins.
- 5G/6G communication technologies for IoT systems.
- The energy consumption and sustainability of IoT systems.
- Computational requirements for IoT systems.

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### Guest Editors

Dr. Marcelo Carvalho  
Dr. Damian Valles  
Dr. Semih Aslan

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### Deadline for manuscript submissions

20 November 2026



## Applied Sciences

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## About the Journal

### 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

Prof. Dr. Giulio Nicola Cerullo  
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