



Internet of Things: Symmetry, Latest Advances and Prospects

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Message from the Guest Editors

Dear Colleagues,

In recent years, the Internet of Things (IoT) has been developed rapidly to provide support for a myriad of emerging applications, such as the Internet of Vehicles (IoV), virtual reality, industry automation, autonomous driving and so on. In such scenarios, the accordingly different symmetry models are generated to tackle the challenges and issues. For example, symmetry is often leveraged to construct an efficient network structure tailored toward a given task.

In this Special Issue, we are interested in novel ideas, advanced techniques, comparative analyses of different methodologies and surveys or technical reviews on all aspects of existing results in IoT. Potential topics include, but are not limited to:

- D2D, M2M, V2V and V2X
- Vehicular Ad Hoc network and mobile Ad Hoc network
- Edge computing and caching
- Task scheduling and resource management for IoT
- NOMA, RSMA and other new access schemes
- Parallel/distributed architectures and algorithms
- Security and privacy
- Hardware platform for IoT
- AI and machine learning for IoT
- IoT applications in agriculture, industry, healthcare, etc.





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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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