

# Special Issue

## IoT-Enabling Technologies and Applications

### Message from the Guest Editor

This Special Issue will cover original research and extensive review articles on IoT-enabling technologies and applications, including, but not limited to, the following topics:

- IoT architectures and their applications;
- Challenges and issues in IoT such as security, privacy, and environmental impacts;
- Wireless sensor networks and their applications in IoT systems;
- Integrated Sensing and Communications (ISAC) in IoT systems;
- Challenges in aerial, terrestrial and below earth IoT networks;
- Intelligent Reflecting Surfaces in IoT networks;
- Cloud, Fog and Edge computing in IoT systems;
- Big data analytics and its use in IoT systems;
- Embedded systems and their role in IoT systems;
- Semantic search engines and their use in IoT systems;
- Machine learning and artificial intelligence for IoT applications;
- Smart cities, autonomous vehicles and other user cases of IoT technologies;
- Digital twins and their applications with IoT.

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### Guest Editor

Prof. Dr. Xavier Fernando  
Department of Electrical and Computer Engineering, Ryerson  
University, Toronto, ON, Canada

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### Deadline for manuscript submissions

closed (28 February 2025)



## Technologies

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## About the Journal

### Message from the Editor-in-Chief

*Technologies*, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

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### Editor-in-Chief

Prof. Dr. Manoj Gupta

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 21.1 days after  
submission; acceptance to publication is undertaken in 3.6  
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