Special Issue

Future IoT Convergence: Integrating Electromagnetics, AI, Cybersecurity, and Databases

Message from the Guest Editors

This Special Issue focuses on future IoT convergence technologies that integrate advances in applied electromagnetics (e.g., antenna design, wireless transmission, numerical analysis), artificial intelligence (e.g., machine learning for adaptive control or fault detection), cybersecurity (e.g., secure protocols, encryption, risk mitigation), and database systems (e.g., secure storage, distributed access, the real-time querying of sensor data). We aim to explore how these technologies can work together to enhance the scalability, security, energy efficiency, and intelligence of next-generation IoT systems. The scope of this Special Issue includes, but is not limited to, the following:

- Wireless and mobile IoT devices and networks;
- Electromagnetic modeling and simulation for IoT hardware;
- AI and machine learning for IoT optimization and decision making;
- Secure communication protocols and cybersecurity in IoT environments;
- Edge computing and software-defined networking (SDN);
- Data storage, management, and analytics using database technologies;
- Robotic IoT systems and intelligent sensor platforms;
- Cybersecurity education and policy in the context of IoT deployment.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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