

Special Issue

Advances in IoT and Machine Learning for Smart Homes

Message from the Guest Editor

This Special Issue will focus on the transformative impact of integrating Internet of Things (IoT) technologies with machine learning techniques to create intelligent, efficient, and secure smart home environments. The proliferation of IoT devices in home automation has led to significant advancements in energy management, security, and user convenience, while machine learning algorithms enable these devices to learn from user behavior, anticipate needs, and provide real-time decision-making support. We invite submissions that explore the intersection of IoT, embedded systems, and machine learning in smart home applications. Topics may include novel IoT-based architectures for home automation, energy-efficient solutions, security and privacy concerns, as well as emerging applications such as intelligent health monitoring, smart appliances, and adaptive home environments. Contributions addressing challenges in real-time data processing, sensor integration, and power optimization in smart homes are particularly welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2025)



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Editor-in-Chief

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