

## Special Issue

# Intelligent Wireless Sensor Networks: Advancing Efficiency and Autonomy with Machine Learning

### Message from the Guest Editor

The rapid advancements in Wireless Sensor Networks (WSNs) have enabled a wide range of applications, from environmental monitoring and smart cities to industrial automation and healthcare. However, the dynamic and resource-constrained nature of WSNs presents significant challenges in areas such as energy efficiency, data reliability, network optimization, and security. To address these challenges, the integration of Machine Learning (ML) techniques has emerged as a transformative solution, enabling intelligent decision-making, anomaly detection, adaptive resource management, and predictive analytics. This Special Issue aims to explore cutting-edge research and innovative applications that leverage ML to enhance the performance, scalability, and resilience of WSNs, paving the way for next-generation intelligent sensor networks. For detailed information, please visit [here](#).

### Guest Editor

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### Deadline for manuscript submissions

closed (15 April 2026)



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