

## Special Issue

# Advances in Tiny Machine Learning (TinyML): Applications, Models, and Implementation

### Message from the Guest Editors

Tiny machine learning (TinyML) represents a paradigm shift in the field of machine learning, where models are deployed directly onto ultra-low-power, resource-constrained devices such as microcontrollers and edge sensors. Unlike traditional machine learning approaches that rely on centralized processing power, TinyML leverages the capabilities of edge devices to perform inference tasks locally, enabling real-time decision-making and autonomous functionality without constant reliance on cloud connectivity. This Special Issue, “Advances in Tiny Machine Learning (TinyML): Applications, Models, and Implementation”, focuses on exploring this burgeoning field with the aim of elucidating the latest advancements, challenges, and applications within this domain. This Special Issue aims to serve as a platform for researchers, engineers, and practitioners to disseminate their cutting-edge research findings, exchange ideas, and foster collaborations in the field of TinyML.

### Guest Editors

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### Deadline for manuscript submissions

closed (15 November 2025)



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