

Special Issue

Sustainable V2X Communication: Intelligent Sensing and Green Connectivity

Message from the Guest Editor

This Special Issue invites original research articles, reviews, and case studies that address various aspects of sustainable V2X communication. Topics of interest include, but are not limited to:

- **Federated Learning:** Collaborative model training across vehicles and infrastructure.
- **Spiking Neural Networks (SNNs) and Reservoir Computing:** Energy-efficient neural network architectures for real-time sensor data processing in resource-constrained V2X devices.
- **Physics-Informed Neural Networks (PINNs):** Integrating physical models of traffic flow and vehicle dynamics into neural networks.
- **Trustworthiness and Security:** Secure and reliable communication protocols for V2X.
- **Continual Learning:** Adapting V2X systems to evolving traffic patterns and environmental conditions.
- **Edge Computing for Sustainable V2X:** Deploying intelligent algorithms at the network edge to minimize latency and reduce energy consumption associated with cloud-based processing.
- **Energy-Aware Communication Protocols:** Designing communication protocols that minimize energy consumption in V2X networks.
- **Sustainable Mobility Applications:** V2X applications that promote eco-friendly transportation.

Guest Editor

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Deadline for manuscript submissions

31 August 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/227058

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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