

## Special Issue

# Federated Edge Learning: Models, Mechanisms, Algorithms, and Applications

### Message from the Guest Editors

We are delighted to invite submissions to this upcoming edition of *Electronics* on “Federated Edge Learning: Models, Mechanisms, Algorithms, and Applications”. This Special Issue seeks to advance research on Federated Edge Learning (FEL) in resource-constrained environments, a rapidly evolving field that presents both unique challenges and transformative opportunities in artificial intelligence. By bridging theory and practice, this collection aims to drive innovation in distributed learning systems, with far-reaching implications for the Internet of Things (IoT), mobile computing, and beyond. We invite original research articles and reviews on topics including, but not limited to, the following areas:

- Game-theoretic models for efficient FEL.
- Incentive mechanism design for FEL in resource-constrained environments.
- Privacy-preserving mechanisms in FEL.
- Communication-efficient strategies for FEL.
- Model compression and acceleration methods for FEL.
- System architectures for scalable FEL.
- Heterogeneity-aware approaches in FEL.
- UAV-assisted FEL for enhanced global efficiency.
- Real-world case studies and applications of FEL.

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### Guest Editors

Prof. Dr. Jianfeng Lu

Dr. Haozhao Wang

Dr. Gang Li

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### Deadline for manuscript submissions

20 February 2026



## Electronics

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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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

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