

## Special Issue

# Real-Time and Time-Sensitive Wireless Networks and Systems

### Message from the Guest Editors

This Special Issue focuses on real-time and time-sensitive wireless networks and systems, highlighting both fundamental research and practical innovations. We invite contributions addressing new architectures, analytical models, optimization frameworks, and experimental systems that advance the state of the art. The topics of interest include, but are not limited to:

- Wi-Fi 7/8, 5G/6G, and their support for time-sensitive and critical applications;
- Integration and coexistence of wireless networks with TSN and DetNet;
- AI, ML, and FL for optimization, scheduling, interference and mobility management, and resource allocation in real-time wireless networks;
- Explainable, reliable, and efficient AI/ML/FL at the wireless edge;
- Collaborative and multi-agent intelligence for time-sensitive wireless networks and systems;
- Network calculus, age of information, stochastic models, and other analytical methods for latency, reliability, and freshness guarantees;
- Synchronization and time-aware networking in wireless domains;
- Testbeds, prototypes, and experimental validations.

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### Guest Editors

Dr. Doğanalp Ergenç

Dr. Nurefsan Sertbas Bulbul

Dr. Baturalp Buyukates

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### Deadline for manuscript submissions

15 April 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

Prof. Dr. Flavio Canavero

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