

## Special Issue

# Intelligent and Immersive 5G and Beyond Telecommunications: Enabling the Next-Level Artificial Intelligence Integration

### Message from the Guest Editors

Currently, 5G connectivity is providing us with an interesting playground to test and validate innovative solutions, whilst the upcoming sixth generation technology for cellular networks (aka 6G) is challenging us to rethink what types of new services could benefit the market and society. One of the most promising innovations is the integration of Artificial Intelligence (AI) into this system. We invite researchers, scientists, and experts in the fields of AI and telecommunications to contribute to a Special Issue that explores the latest advancements and applications of AI in the sector. The topics of interest include, but are not limited to:

- Machine learning algorithms for network optimization;
- AI-driven network orchestration and management;
- AI-enhanced security solutions for 5G and beyond networks;
- Intelligent edge computing in 5G and beyond networks;
- AI-powered quality of service (QoS) enhancements;
- Immersive applications and haptic technology use cases
- IoT and AI applications enabled by 5G and beyond;
- Network slicing and AI-driven resource allocation

### Guest Editors

Dr. Pedro M. B. Torres

Dr. Hugo Marques

Dr. Paulo Marques

### Deadline for manuscript submissions

closed (15 May 2025)



## 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 guest-edited by leading experts in selected topics of interest.

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### Editor-in-Chief

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