

## Special Issue

# Advancements in Signal Processing: Communications, Sensing and Imaging

### Message from the Guest Editors

This Special Issue will include, but is not limited to, the application of digital twin technologies to address the following areas:

- Advanced communication systems and networks, including 5G/6G and beyond;
- Machine learning and other AI topics in signal processing for communications, sensing, and imaging;
- Signal processing techniques for wireless communications;
- Sensing technologies for smart environments and IoT applications;
- Innovative imaging techniques, including medical and industrial applications;
- Noise reduction, filtering, and signal enhancement methods;
- Data fusion techniques for multi-sensor systems;
- Security and privacy issues in communication and sensing systems;
- Signal processing for biomedical applications, including imaging and wearable sensors;
- Advances in optical and quantum signal processing;
- Visible Light Communications (VLCs) and Optical Camera Communications (OCCs);
- Adaptive systems and multimedia applications;
- Software-defined networking and network data analytics;
- Precision agriculture and environmental management systems;
- Power-efficient circuits for signal processing, communications, sensing, and imaging.

### Guest Editors

Dr. Robert Alexandru Dobre

Dr. Declan T. Delaney

Dr. Juan Rodríguez Méndez

### Deadline for manuscript submissions

15 December 2025



## Electronics

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*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

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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

Department of Electronics and Telecommunications, Politecnico di  
Torino, 10129 Torino, Italy

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