

Special Issue

Multidimensional Digital Signal Processing

Message from the Guest Editor

Signal processing, image processing, and video processing are three research and application fields sharing the same background of digital signal processing. The aim of this Special Issue is to focus on many signal, image, and video processing techniques and possible applications of multi-sensor/multi-technology/multi-dimensional data processing to give a large and complete view of this complex scenario. Topics that include but are not limited to new methods, algorithms, solutions, and applications in the following areas:

- Adaptive signal processing
- Biomedical signal processing
- Communication signal processing
- Multi-dimensional signal processing
- Multimedia signal processing
- Non-linear signal processing
- Array of sensors signal processing
- Audio/video complex surveillance systems
- Action recognition and tracking
- Complex vision system for SLAM and scene modeling
- Statistical signal processing
- Machine learning for signal processing
- Complex networks in signal processing
- Real-time algorithms for multidimensional signal processing
- Hardware that is specific to multidimensional signal processing

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).