

## Special Issue

# Advanced Digital Signal Processing and Its Applications

### Message from the Guest Editors

The continuous progress of science and technology requires the development of information processing systems to seek new progressive methods and design solutions for performing calculations. Primary information is derived from various sources in the form of signals. In our proposed Special Issue, we plan to address a wide range of issues related to broadly understood digital signal processing and its application in modern electronic systems and telecommunication networks. This Special Issue will highlight the latest technological developments in digital signal processing, as well as deep learning.

The scope of this Special Issue will be broadly interpreted to include, but not be limited to, the following topics:

Signal registration, representation and analysis;  
Automatic extraction of data from signals;  
Algorithms for real-time digital signal processing (DSP);  
Image, video and multidimensional signal processing;  
Medical signal processing; Multimedia signal processing;  
3D signal analysis and applications;  
Low-power circuits and systems for DSP applications;  
Sensor array and multichannel signal processing;  
Digital signal processing for MIMO communications.

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### Guest Editors

Prof. Dr. Aleksandr Cariow

Dr. Marek Parfieniuk

Dr. Adam Nowosielski

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### Deadline for manuscript submissions

closed (20 February 2025)



## Applied Sciences

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CiteScore 5.5



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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
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