



Applications and Challenges of Digital Signal Processing

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Message from the Guest Editors

Dear Colleagues,

Digital Signal Processing (DSP) is an essential field of study in modern engineering and technology. DSP deals with the manipulation and analysis of signals, which are represented digitally as sequences of numbers. DSP finds its application in a wide range of fields such as communications, medical imaging, audio processing, radar systems, and many more. The goal of this Special Issue is to invite interested parties to publish original manuscripts and present state-of-the-art research regarding DSP, including novel algorithms and applications, large-scale computational science, artificial intelligence, machine learning, deep learning, and so on.

Topics of interest include, but are not limited to:

- Signal processing for communication systems
- Speech and audio signal processing
- Image and video signal processing
- Biomedical signal processing
- Adaptive signal processing
- Machine learning for signal processing
- Signal processing for sensor networks:





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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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