

Special Issue

Machine Learning Applications in Image and Signal Processing: Challenges and Solutions

Message from the Guest Editor

The integration of machine learning (ML) with image and signal processing has revolutionized various fields by enhancing researchers' ability to analyse and interpret complex data. ML algorithms can extract meaningful features from signals and images, improve classification accuracy, and enable advanced functionalities such as real-time processing and automated decision-making. This synergy between ML and image/signal processing has broad applications, including medical diagnostics, remote sensing, security, and multimedia. This Special Issue highlights innovative research and addresses ongoing challenges in this field, with a particular focus on signal and image processing, signal reconstruction, image quantization, and advanced medical imaging applications. It serves as a platform for researchers to share their cutting-edge research, insights, and experiences, fostering collaboration and advancing the field. This Special Issue's scope includes a wide range of topics related to the machine learning applications in image and signal processing.

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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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