Special Issue

AI and Adaptive-Based Digital Signal Processing and Optimal Implementation of DSP Algorithms

Message from the Guest Editors

Artificial intelligence (AI) is increasingly transforming the field of many electronics areas. Digital Signal Processing (DSP) systems are becoming more complex, requiring advanced approaches that go beyond traditional techniques. In this context, AI offers powerful tools to address nonlinearities, parameter variations, and uncertainties, enabling intelligent, adaptive, and data-driven solutions. This Special Issue aims to bring together cutting-edge research at the intersection of signal processing and AI. We invite contributions exploring theoretical advances, computational models, and real-world applications, which exploit the synergy between traditional signal processing principles and modern ones. Also, it focuses on papers that demonstrate how these design challenges can be overcome using innovative solutions. Overall, this Special Issue will highlight the growing role of artificial intelligence and adaptive techniques and optimal implementations in advancing Digital Signal Processing and electronic systems, with the goal of creating more intelligent, efficient, and sustainable DSP systems.

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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.

Editor-in-Chief

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