Special Issue

Recent Advances in Signal Processing for Flexible and Wearable Electronics

Message from the Guest Editors

Flexible and wearable electronics have rapidly emerged as transformative technologies with applications in healthcare, robotics, human–machine interfaces, and beyond. However, the effective integration of signal processing techniques is crucial for optimizing their performance, addressing challenges such as noise filtering, real-time data visualization, feature extraction, machine learning-based analysis, and other critical functions. This Special Issue aims to showcase the latest innovations at the intersection of flexible electronics and advanced signal processing. The scope of this collection includes novel machine learning algorithms and signal processing methods that advance signal acquisition, filtering, feature extraction, and classification in flexible electronics. Topics of interest span machine learning for bio-signal analysis, processing architectures, adaptive noise cancellation, multimodal data fusion, etc. The purpose of this Special Issue is to bridge gaps between signal processing and flexible device design, highlighting synergies that push the boundaries of functionality.

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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.

Editor-in-Chief

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