Special Issue

Neural Network Applications to Digital Signal Processing

Message from the Guest Editors

Biology offers system models that process information more efficiently than current technology. Neuromorphic computing systems offer a new computing paradigm for emerging scientific and engineering applications by mimicking the processing of neurobiological architectures. This computing paradigm requires a melding of novel engineering principles with knowledge gleaned from neuroscience. Artificial intelligence is increasingly present in applications that we use in our daily lives, especially in visual and audio processing tasks, but they require high computational power and are not as efficient compared to biological systems. The scope of this Special Issue will be broadly interpreted to include but not be limited to:

- Neuromorphic sensory fusion;
- Event-based algorithms for visual and audio processing;
- Neuromorphic control algorithms;
- Neuromorphic vision sensing and processing;
- New hardware architectures for neuromorphic edge computing;
- Neuromorphic audio sensing and processing;
- Neuromorphic sensory integration.

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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