



Neural Network Applications to Digital Signal Processing

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Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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