Special Issue

Neuromorphic Engineering and Machine Learning

Message from the Guest Editors

Neuromorphic engineering proposes the use of biologically plausible models applied to engineering applications. The brain has been proven to solve complex problems in the most efficient way thanks to evolution. Therefore, replicating the way in which the brain performs specific tasks has become an interesting and promising field of research. This Special Issue focuses on recent advances in neuromorphic engineering, including neuromorphic sensors, neuromorphic systems, bio-inspired models, spiking neural networks, and machine learning, which consider both hardware (digital or analog circuits) and software implementations. Submissions to this Special Issue on 'Neuromorphic Engineering and Machine Learning' are solicited to represent a snapshot of the field's development by covering a range of topics such as (but not limited to) the following: Event-based sensors: vision, audio, tactile, olfactory; Spiking neural network models; Spike-based central pattern generators; Machine learning applied to spike-based systems; Deep learning algorithms for neuromorphic applications.

Guest Editors

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