Special Issue

Biologically Inspired Computing and Architectures for Hardware Design and Embedded Systems

Message from the Guest Editors

The influence of biological systems extends across various fields, including electronics and computer science. Biologically inspired computing constitutes a pivotal domain of research that amalgamates biological principles with the design of hardware and embedded systems. This interdisciplinary approach harnesses the adaptive, self-organizing, and fault-tolerant characteristics observed in nature to inspire the development of computing systems that are both efficient and resilient. Key attributes intrinsic to living organisms, such as evolvability, self-organization, fault tolerance, adaptability, and learning, have attracted considerable attention due to their potential to enhance the functionality of embedded computer architectures. These characteristics can substantially augment the operational capabilities of engineered systems and computational methodologies, resulting in more robust and efficient computational frameworks.

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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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