Special Issue

Challenges and Opportunities of Artificial Intelligence for Electronic Design: Theory and Applications

Message from the Guest Editor

This Special Issue aims to provide readers with a timely snapshot of the state-of-the-art developments in the field of artificial intelligence applied to the modeling, design, validation, and testing of electronic hardware. The topics span from the theory, the algorithms, and the neural network architectures to improve the accuracy, efficiency, and optimization of AI processes to practical applications, innovative tools, and prototypes that help and support the correct and advanced design of electronic systems and components.

- artificial intelligence
- artificial neural networks
- big data management
- learning techniques
- optimization
- printed circuit boards
- analog circuits
- RF systems
- IC and packages
- power delivery networks
- signal integrity
- power integrity
- CAD and tools

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Message from the Editor-in-Chief

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.

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