

Special Issue

Recent Trends and Applications of Artificial Intelligence

Message from the Guest Editors

In recent years, machine learning (ML) and artificial intelligence (AI) have profoundly impacted various fields, such as cybersecurity, big data analytics, digital twins, internet of things (IoT), image processing, cloud computing, agriculture, and industry 4.0. In particular, AI and ML techniques have achieved rapid technological improvement by overcoming various problems that traditional solutions were not able to address. However, the current AI and ML models have significant limits and difficulties, restricting their use to handling specific problems in limited areas. AI and ML solutions of the next generation will presumably eliminate the shortcomings of the current generation. Researchers and practitioners are working on a variety of areas to realize next-gen AI, including improved explainability, trust, and reliability; new AI paradigms, such as federated learning, bio-inspired AI models, neuro-symbolic AI, and quantum AI; specialized AI hardware, software, and data models; enhanced AI-human collaboration (collaborative intelligence); and efforts to move closer to artificial general intelligence (AGI).

Guest Editors

Prof. Dr. Najlae Idrissi

Dr. Yassine Sadqi

Dr. Abdul Wahid

Dr. Gurjot Singh Gaba

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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