





an Open Access Journal by MDPI

Application of Advanced Digital Electronics in Intelligent Systems

Guest Editors:

Dr. Acácio M. R. Amaral

1. Polytechnic Institute of Coimbra, Coimbra Institute of Engineering, Rua Pedro Nunes— Quinta da Nora, P-3030-199 Coimbra, Portugal 2. CISE-Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Dr. Filipe Sá

Polytechnic Institute of Coimbra, Coimbra Institute of Engineering, Rua Pedro Nunes-Quinta da Nora, 3030-199 Coimbra, Portugal

Deadline for manuscript submissions:

20 February 2025

Message from the Guest Editors

Dear Colleagues,

Advanced digital systems (ADSs), such as microcontrollers, embedded microprocessors, digital sensors, and communication modules, provide the basic infrastructure of Internet of Things (IoT) systems, enabling connectivity, security, data processing, analytics, and control capabilities.

On the other hand, the IoT has enabled the connectivity of everyday objects with the Internet, providing them with the ability to communicate with each other as well as with humans, which makes the IoT application fields virtually unbounded. Hence, ADS applications must ensure connectivity between different devices on multiple platforms, increase data security and privacy in different applications and systems, improve the efficiency and optimization of different processes, provide intelligence and learning capabilities to different systems, and increase the experience and satisfaction of different users.

This Special issue intends to bring together researchers and professionals to discuss and present solutions to the aforementioned challenges, as well as to point out future research directions.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us