

Special Issue

Application of Advanced Digital Electronics in Intelligent Systems

Message from the Guest Editors

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.

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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.

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