Integration of AI, Big Data, and ICT into Emerging Technologies for Sustainable Solutions

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Message from the Guest Editors

Dear Colleagues,

Sustainable solutions across various industries have become pivotal in the era of global digital transformation, while the transformative impacts of Artificial Intelligence (AI), Big Data, and Information and Communication Technology (ICT) promise to enhance and promote a brighter, more sustainable future for humanity.

In recent years, the convergence of emerging technologies has opened up a rapidly expanding field of study. Specifically, the integration of these technologies into systems across various sectors—such as healthcare, smart cities, manufacturing, and Urban Air Mobility (UAM)—has enhanced their efficiency, performance, and sustainability, making them indispensable tools in a wide range of engineering applications. This Special Issue will feature research and case studies that examine how Artificial Intelligence (AI), Big Data, and Information and Communication Technology (ICT) can drive innovation, optimize performance, and tackle challenges across a diverse array of applications, from environmental management to the development of smart infrastructure.

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Special Issue

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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.

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