



Digital Twins: Technologies and Applications

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Message from the Guest Editors

Dear Colleagues,

The Special Issue on Digital Twins (DTs) is relevant to applied sciences fields, including but not limited to:

1. Developing software and algorithms that underpin DTs.
2. Mechanical, electrical, civil, and software engineering for designing and analyzing physical systems and their digital shadows.
3. Utilizing big data, machine learning, and statistical methods to interpret DT-generated data.
4. Infrastructure and communication protocols required for DTs' interaction with physical entities.
5. DTs in manufacturing, process optimization, and supply chain management.
6. DTs for monitoring and managing environmental systems and sustainability.
7. Patient-specific models and healthcare systems management.
8. DTs in the design, management, and optimization of urban environments.
9. Development and management of energy systems, RESs, and smart grids.
10. Precision farming, crop management, and resource optimization.
11. Management of traffic, fleet, and logistics operations.
12. DTs for educational and research purposes.
13. Ship design, navigation, and port management.

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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