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Modeling and Simulation with Artificial Neural Network

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Since the classical Modeling and Simulation (M&S) and the data-driven approach are complementary, using both of them together can develop a more flexible and reliable model for the complex system compared to using only one. For example, when developing a model for optimal control of a smart greenhouse, two components should be considered: 1) a controller and 2) the greenhouse. The classical M&S can be a better approach to developing a model of the controller because the controller has a clear operational principle. A flexible and high-fidelity model for the smart greenhouse can be developed by combining these two models.

This Special Issue covers the overall research fields related to a complementary use of M&S and artificial neural network(ANN), ranging from concepts, theories, methodologies, and applications to practical studies in specific domains. Given your renowned expertise and significant contributions to this field, we would like to invite you to contribute to this Special Issue.

Keywords

- Modeling and Simulation
- Artificial Neural Network
- Data-driven model
- Big Data

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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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