

Special Issue

Computer Methods in Mechanical, Civil and Biomedical Engineering

Message from the Guest Editors

Among various computational methods applied in science, one can distinguish mesh-based or meshless numerical methods, which are commonly used to analyze problems in mechanical or civil engineering, bioengineering, and other fields. The mesh-based methods require discretization at the beginning, which can be challenging for the complicated geometry of the problem under consideration. On the other hand, one can apply the meshless methods, which avoid the process of geometry discretization. Artificial intelligence methods have recently shown great importance in many fields of science. The crucial stage of artificial intelligence algorithms is a learning process, which can be supervised or unsupervised. Among various techniques, one can distinguish artificial neural networks or evolutionary algorithms, which are commonly used in mechanical, civil, and biomedical engineering. This Special Issue of Applied Sciences is devoted to the application of all these computer methods in, but not limited to, mechanical, civil, and biomedical engineering.

Guest Editors

Dr. Jakub Krzysztof Grabski

Prof. Dr. Chia-Ming Fan

Dr. Po-Wei Li

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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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.

Editor-in-Chief

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

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