Special Issue

Neural Networks and Modelling Applied in Engineering

Message from the Guest Editors

A significant impulse for resolving difficult practical challenges is frequently provided by the interaction of abstract modelling with actual engineering knowledge. In engineering and industry, the use of expensive experiments or physical models frequently fails to produce results and solutions in line with the resources invested. Implementing neural networks or other mathematical models based on a planned experiment frequently results in interpretive issues but primarily offers practical solutions. In this Special Issue, we welcome submissions on the application of neural networks and mathematical modeling in engineering. Submissions must meet the requirements of uniqueness, originality, and scientific achievements. Papers that present methods to address particular problems that occur when applying neural networks and mathematical models to real-world issues in all areas of engineering (civil, mechanical, electrical, chemical, etc.), as well as papers that present original concepts, research results, and unconventional or previously unpublished applications of these techniques, are also encouraged.

Guest Editors

Dr. Milan Kadnár

Dr. Marta Harničárová

Dr. Jan Valíček

Deadline for manuscript submissions

closed (30 June 2024)

About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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