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Mathematical Methods in the Applied Sciences

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Message from the Guest Editors

The applied sciences include a broad range of disciplines, such as engineering, business, medicine, neuroscience, Earth science, etc. It is often contrasted with basic science, which is focused on advancing scientific theories and laws that explain and predict events in the natural world. Many problems related to the applied sciences are resolved mathematically, hence the need to explore and search for adequate mathematical methods to accurately describe and explain real-world phenomena. These mathematical methods can be expressed using linear, non-linear, ordinary differential and partial differential equations.

The aim of this Special Issue is to give scientists and researchers the opportunity to present their works, including but not limited to:

- mathematical methods;
- applied mathematics;
- biomathematics;
- modeling;
- applied sciences;
- real systems;
- applied mechanics;
- quantitative models;
- simulation methodology;
- inverse problems;
- numerical methods;
- machine learning;
- deep learning;
- reinforcement learning.

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