



Applied Mechanics, Engineering and Modeling - Volume II

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Symmetry generalizes the concepts of structural regularity, balance, stability and the aesthetics of natural and artificial systems. However, the properties of the system's components change over time, resulting in the appearance of asymmetry. This then causes movement towards symmetry; that is, a new state of balance between the components of the system. Such cycles are repeated at each new level, which should correspond to contemporaries' research, including models and methods implemented in applied mechanics and technology. Thus, many updated solutions can be offered to predict the interconnections between the components of different systems as a contribution to sustainable development.

In this Special Issue, authors are invited to present theoretical and experimental research aimed at solving problems directly or indirectly related to the mentioned topics, including:

- Modeling of technological processes of timber harvesting and processing;
- Modeling the properties of paper and other materials obtained from wood raw materials;
- Modeling the properties of rocks;
- Modeling of technological processes in construction;





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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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