



Applied Mathematical Modeling and Intelligent Algorithms

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Message from the Guest Editors

Dear Colleagues,

The resolution of numerous contemporary engineering issues necessitates the application of mathematical modeling techniques and intelligent algorithms, such as in the field of mechanical engineering, civil engineering, aerospace, biological engineering, and so on. This Special Issue focuses on the application of mathematical modeling and intelligent algorithms. The scope of this Special Issue includes, but is not limited to, the following topics:

1. Theoretical modeling;
2. Free and forced vibrations;
3. Computational fluid dynamics;
4. Nonlinear analysis;
5. Functionally graded material;
6. Deep learning;
7. Optimization;
8. Structural design;
9. Biomechanics;
10. Fault diagnosis.

All colleagues are welcome to contribute high-quality papers.





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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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