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Recent Development and Application of Methods in Computational Mechanics

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Deadline for manuscript submissions:

closed (30 April 2024)

Message from the Guest Editors

Computational mechanics, a discipline of physics, mathematics, and computer science, has had a profound impact on science and technology over the past few decades. It has transformed much of the classical Newtonian theory into practical tools to predict and understand complex systems, particularly when it becomes too difficult to obtain analytical solutions in realistic conditions.

As a result, the Special Issue concentrates on the state of the art in computational-mechanics methods, combined with other recent experiments and analytical analyses, offering a more-in-depth insight. Therefore, you are invited to submit original research papers and/or comprehenssive review articles on, but not limited to, the following topics:

- 1. Modern methods on modeling fracture patterns;
- Neural-network-based methods for fluid flow in porous media;
- Computational simulation of magnetohydrodynamics (MHD);
- 4. Multi-dimensional simulation of (multi-phase) fluid flow;
- 5. Biomedical applications of computational mechanics:
- 6. Revision/improvement of conventional numerical methods.



Specialsue







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Message from the Editor-in-Chief

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