Special Issue

Numerical Methods for Problems Arising in Mechanics

Message from the Guest Editors

Thermal control and flow analysis using the concept of fluids are considerably significant due to several applications in engineering sciences. The potential applications are avionics, automotive, cooling/heating systems in buildings, furnaces, electronic equipment. tanks containing cold/hot water, phase change materials (PCMs), petrochemical, and textile sectors. Several studies examine such mechanisms experimentally or through mathematical modeling governed by nonlinear equations in the last few eras. However, the advancement in fluid mechanics and investigation using mathematical algorithms has been deemed to be critical. The area needs to be studied through different aspects and various geometries, while developing mathematical methods for such models will be challenging. This Special Issue will provide a platform for researchers to present their substantial, novel, and unpublished work that will contribute positively to the scientific community and the journal. Moreover, it will provide sufficient knowledge to researchers working on the numerical treatment of fluid models.

Guest Editors

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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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