

Special Issue

Development and Revision of Mathematical Models in Nonlocal Elasticity

Message from the Guest Editors

You are kindly invited to contribute to the special issue “Development and Revision of Mathematical Models in Nonlocal Elasticity”. Nonlocal models in mathematical elasticity represent a significant area of research, driven not only by academic interest but also by numerous engineering applications, including those at the nanoscale. Notably, the classical models established by Eringen have recently been revisited due to several issues, such as non-equivalence of the integral and differential formulations and ill-posed nature of the original integral problem formulations. This special issue aims to further advance the field, with a focus on dynamic problems, including wave phenomena, vibrations and buckling of nanoscale structures, as well as multiphysics phenomena. Both analytical and numerical methods will be considered. We welcome contributions on these and related topics studied within the nonlocal framework.

Guest Editors

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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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