



Differential Equations of Mathematical Physics and Related Problems of Mechanics

Guest Editors:

Prof. Dr. Hovik Matevosian

Prof. Dr. Maria Korovina

Prof. Dr. Sergey Lurie

Message from the Guest Editors

The main topics of this Special Issue are:

- Mathematical Physics and PDE
- Applied Mathematics

Deadline for manuscript
submissions:

closed (31 October 2023)

Numerical methods of ODEs and PDEs, nonlinear problems, bifurcations, stability, chaos and fractals, fractional calculus;

- Related Problems of Analysis and Continuum Mechanics

Stochastic models and probabilistic methods including random matrices and stochastic PDE; variational formulations of gradient elasticity theories, micropolar and micromorphic models of solids and fluids; constructive methods for representing solutions in the high-order theories of solids; general representations of solutions; nonlocal effects (interactions) and smooth solutions for bodies with nonsmooth geometry; identification of materials parameters of generalized continuum theories; size-dependent models of thin structures and composite materials; nonclassical dynamic effects in generalized media; gradient theories in multiphysics, including thermodynamic, thermodiffusion, electroelasticity processes in the nano- and microfields of mechanical engineering and related applied problems.





Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

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Mathematics Editorial Office
MDPI, Grosspeteranlage 5
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