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Applications of Partial Differential Equations in Mathematical Physics, 1st Edition

Guest Editor:

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Message from the Guest Editor

Partial differential equations mathematical in physics provide a suitable platform for the development of original research in the fields of applied mathematics and physical sciences for the solution of boundary value problems with the introduction of partial differential equations and related methodologies. The purpose of this Special Issue is to gather contributions from experts on analytical and semi-analytical techniques with application domains, including but not limited to fluid dynamics, creeping hydrodynamics and magnetic fluids, direct and inverse scattering problems in wave phenomena, electromagnetism and low-frequency scattering, electric and magnetic activity of the brain, scattering of elastic and anisotropic materials, waves from isotropic mathematical modelling of cancer tumour growth, interaction with cold atmospheric pressure plasma jet systems and actuators, etc. Contributions with a main emphasis on numerical methods for the application of partial differential equations in mathematical physics are also welcome, provided they exploit analytical means at certain stages of the procedures employed for the derivations of the solutions.











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Message from the Editor-in-Chief

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