PARTIAL DIFFERENTIAL EQUATIONS IN APPLIED MATHEMATICS

AUTHOR INFORMATION PACK

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DESCRIPTION

Partial Differential Equations in Applied Mathematics provides a platform for the rapid circulation of original researches in applied mathematics and applied sciences by utilizing partial differential equations and related techniques. Contributions on analytical and numerical approaches are both encouraged. All manuscripts should be written to be accessible to a broad scientific audience, who are interested in applied partial differential equations and their applications in physical and engineering sciences. The covered topics include, but are not limited to, inverse scattering transforms, initial and boundary value problems, the unified transform (Fokas method), Lie symmetry method, Hamiltonian theory, Darboux and Backlund transformations, Hirota bilinear method, Riemann-Hilbert problems, d-bar formalism, long-time asymptotics, etc. Papers dealing with mathematical modeling and analysis for traveling waves, solitons, lumps, rogue waves, breathers, optical solitons and non-smooth solitons are particularly welcome.

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INTRODUCTION

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BEFORE YOU BEGIN

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