SN Partial Differential Equations and Applications

Editor-in-Chief: Z. Zhang

SN Partial Differential Equations and Applications (SN PDE) offers a single platform for all PDE-based research, bridging the areas of Mathematical Analysis, Computational Mathematics and applications of Mathematics in the Sciences. It thus encourages and amplifies the transfer of knowledge between scientists with different backgrounds and from different disciplines who study, solve or apply the same types of equations. SN PDE accepts both original research as well as review articles of high quality, providing thorough and fast peer-review.

The journal is organized in three sections:

**Theory of PDEs**

Covering topics in elliptic, parabolic and hyperbolic PDEs, PDEs on manifolds, fractional PDEs, calculus of variations, functional analysis, ODEs and a range of further topics from Mathematical Analysis.

**Computational approaches to PDEs**

Covering all areas in Numerical Analysis and Computational Mathematics with relation to PDEs. Here the main emphasis is on the numerical method, rather than the particular application.

**Applications of PDEs in the sciences**

Covering applications in Mathematical Physics, Chemistry, Biology, Engineering, and also in the Life- and Social-Sciences. Both analytic and computational methods are welcome.

As a bridge between the different communities, the journal further invites dedicated Knowledge Transfer Papers: These may be interdisciplinary review papers highlighting different perspectives on the same type of equation, discussions of open problems and challenges in one community inviting research activity from another, and reviews of recent results written for non-experts amplifying the dissemination of knowledge.

SN PDE offers Topical Collections designed to consolidate publications of a specific research topic. Articles can be either released as direct papers or within a Topical Collection.

Content will be accessible for free in the first two years.

On the homepage of **SN Partial Differential Equations and Applications** at [springer.com](http://springer.com) you can

- Sign up for our Table of Contents Alerts
- Get to know the complete Editorial Board
- Find submission information