## **Special Issue**

### Advances in Partial Differential Equations: Methods and Applications

#### Message from the Guest Editors

The topics of papers of this Special Issue include the following: the existence and uniqueness and bifurcations of solutions of partial differential equations and systems, the stability of solutions of reaction diffusion equations and systems; singular perturbation as well as geometric singular perturbation methods in differential equations and their applications; periodic solutions as well as turing instability for steady states and periodic solutions; traveling waves, trains, pulses in reaction diffusion systems and hyperbolic systems as well as their bifurcations and stabilities; applications in biology, ecology, cell biology and medical fields, including modeling, analysis of models and numerical analysis of model systems.

Guest Editors Prof. Dr. Xiaoiie Hou

Prof. Dr. Yi Li

Prof. Dr. Shuangjie Peng

Deadline for manuscript submissions closed (10 April 2025)



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#### Editor-in-Chief

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