

EVOLUTION EQUATIONS, THEORY AND APPLICATIONS

GUEST EDITORS

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DESCRIPTION

Evolution equations arise in modeling various real world physical and engineering problems. For instance, parabolic equations arise in many applications, such as heat transfer, ground-water flow, and transport problems; hyperbolic equations arise in wave motion and vibrational problems. In mathematical analysis, we are usually interested in obtaining information about the qualitative behaviors of the system including the existence of solutions (local and global solutions), stability, asymptotic behavior and finite-time blow-up. In numerical analysis, we are interested in the quantitative analysis of the mathematical problem, namely in developing numerical methods for computing the solutions. This thematic special issue in *Open Mathematics* is devoted to the publication of new contributions focusing on the theme of evolution equations from the point of view of mathematical and numerical analysis. Contributions to the Special Issue may address (but are not limited) to the following aspects:

- ▶ local and global existence of solutions
- ▶ large time behavior of solutions
- ▶ asymptotic behavior
- ▶ finite-time blow-up
- ▶ Fujita critical exponent
- ▶ differential and fractional differential equations
- ▶ numerical methods

Authors are requested to submit their full revised version of papers complying the general scope of the special issue. The submitted papers will undergo the standard peer-review process before they can be accepted. Notification of acceptance will be communicated as we progress with the review process.

HOW TO SUBMIT

Before submission authors should carefully read the [Instruction for Authors](#).

Manuscripts can be written in TeX, LaTeX (strongly recommended) - the journal's [LATEX template](#). Please note that we do not accept papers in Plain TEX format. Text files can be also submitted as standard DOCUMENT (.DOC) which is acceptable if the submission in LATEX is not possible. For an initial submission, the authors are strongly advised to upload their entire manuscript, including tables and figures, as a single PDF file.

All submissions to the special issue must be made electronically via online submission system Editorial Manager: <https://www.editorialmanager.com/openmath/>

All manuscripts will undergo the standard peer-review process (single blind, at least two independent reviewers). When entering your submission via online submission system please choose the section/category "*SI on Evolution Equations, Theory and Applications*".

Submission of a manuscript implies that the work described has not been published before and it is not under consideration for publication anywhere else.

The deadline for submissions is now extended by 10th May 2021, but individual papers will be reviewed and published online on an ongoing basis.

Contributors to the Special Issue will benefit from:

- ▶ critical peer-review
- ▶ no space constraints
- ▶ quick online publication upon completing the publishing process (**continuous publication model**)
- ▶ content converting to xml
- ▶ better visibility due to **Open Access** - free, unrestricted and permanent access to all the content
- ▶ **liberal policies on copyrights** (authors retain copyrights) and on self-archiving (no embargo periods)
- ▶ **promotion of published papers** to readers and citers

We are looking forward to your submission!

In case of any questions please contact:

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