

Special Issue

Mathematical Modeling of Forest Fire Initiation and Spread

Message from the Guest Editors

The most promising methods for studying forest fires are mathematical modeling methods. For this Special Issue, we invite contributions using mathematical modeling methods and studying the initiation and spread of forest fires. Contributed papers may focus on any aspects of forest fire initiation and spread in any fire-prone forests across the range of fire types.

Examples of potential topics related to the mathematical modeling of forest fires include the influence of the forest fuel type and state, meteorological conditions, relief of terrains and others factors influencing the rate of fire spread and fire contour configurations. Papers with mathematical models dedicated to studying the prevention and control of forest fires are also welcome. For example, the study of the processes of spreading forest fires in the presence of fire breaks or barriers, the spread of oncoming fire during extinguishing, when fire-extinguishing agents are exposed to the fire front, etc.

Guest Editors

Prof. Dr. Valeriy Perminov

Dr. Denis Kasymov

Prof. Dr. Egor Loboda

Deadline for manuscript submissions

closed (10 February 2024)



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/161670

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

[mdpi.com/journal/
forests](https://mdpi.com/journal/forests)





Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



[mdpi.com/journal/
forests](https://mdpi.com/journal/forests)



About the Journal

Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,
I-25121 Brescia, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank:

JCR - Q2 (Forestry) / CiteScore - Q1 (Forestry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).