

Special Issue

Advanced Statistical Modeling in Forests Climate Change and Natural Hazards

Message from the Guest Editors

Natural hazards such as landslides, floods, droughts, erosion, pest and pathogen outbreaks, and fires can significantly impact forests globally. Thus, the primary aim of this Special Issue is to showcase the use of advanced statistical techniques, such as Bayesian statistics and machine learning algorithm optimization, in addressing the impacts of these natural hazards and other relevant events on forests in the current and future climates. We welcome submissions from researchers who are developing and optimizing statistical models and artificial intelligence approaches to address the challenges posed by climate change and natural hazards in forest ecosystems.

Potential topics include, but are not limited to:

Advanced statistical modeling; Optimization algorithms; Machine learning; Bayesian statistics; Bayesian data analysis and computation; Natural disasters; Climate change; Pest/diseases; Species distribution model; Risk assessment of climate change and natural hazards; Identification of areas at high risk of natural hazards and climate change using advanced models.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2023)



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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.

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).