Dynamic Modelling and Risk Assessment of Wildfire

Guest Editor:

Prof. Marcos Rodrigues
Department of Agricultural andForest Engineering, Universitat de Lleida, Lleida, Spain

Deadline for manuscript submissions:
closed (30 October 2019)

Message from the Guest Editor

Wildfires are a major and recurrent threat to valued forest resources and assets resulting from complex interactions and synergies between humans and landscape. Wildfire modeling is currently a mature discipline in which a large number of approaches have been developed, from 'static' models based on long-term historical fire data to operational simulations and forecasts.

Science-based decision-making requires reliable and accurate inputs in order to provide effective recommendations. The most recent developments are clearly influenced by the increasing availability of information. Despite the challenge of managing such a huge amount of information, the current situation regarding data inputs and techniques opens the door to the development of dynamic models, conducive to the simulation and forecast of processes related to fire.

This Special Issue will comprise a selection of papers dealing with non-stationary modeling approaches of wildfire, paying special attention to fire risk. This includes (but it is not limited to) empirical models or simulations of hazard probability, fire danger, propagation, vulnerability, exposure assessments or post-fire response.

mdpi.com/si/24295

Special Issue

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng
Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa
Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editorial Board

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.
Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us