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Mathematical Modeling of Forest Fire Initiation and Spread

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Deadline for manuscript submissions:
closed (10 February 2024)

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.

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Message from the Editorial Board

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