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Modeling Forest Response to Climate Change

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

The impacts of climate uncertainty pose important questions regarding the capability of forest ecosystems to buffer current and future climate-induced global changes. The role of forest management practices may buffer and/or dampen forest response to extreme events; however, multiple and diversified choices should be tested. In such uncertain scenarios, the role of simulation models and decision support systems is much advocated by the scientific community and policymakers to be able to assess and potentially quantify the behavior and responses of forest ecosystems under varying environmental conditions.

In this Special Issue, we encourage and welcome studies introducing new methods, novel applications, and innovative designs to i) model the impacts of climate change on medium- to long-term forest dynamics; ii) assess the impacts of climate change on the delivery of crucial ecosystem services in all forest ecosystems; and iii) analyze, assess, and quantify the impact of climate-induced disturbances on forest carbon cycle, water dynamics, and on the overall forest productivity, in both data-driven and dynamic vegetation models.

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Message from the Editorial Board

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