Special Issue

Modelling Growth of Mixed and Structured Forests

Message from the Guest Editor

It might be said with some confidence that current approaches to address changes in forest structure dynamically and in response to the environment are not well developed. While lumped models usually lack the ability to address structural changes, cohort- and single tree models are struggling with the representation of small-scale environmental conditions which are computational expensive and difficult to evaluate. While some new and exciting developments have been presented recently, experiments and measurement results are still urgently needed to enable scaling from leave to stand and vice versa, both to quantify relationships and feedback responses as well as to provide evaluation data.

In this Special Issue, we thus particularly invite modeling approaches for structured and/or mixed forests, including descriptions of lagged effects, disturbance and management effects, and recovery and regeneration (including ground vegetation) development. In addition, this issue is open for the submission of experimental studies and monitoring approaches that highlight the distribution of environmental conditions and physiological and growth responses dependent on forest structure.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2022)

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/94184

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