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Forest Silviculture and Carbon Sequestration in a Changing Climate

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Deadline for manuscript submissions:
closed (20 February 2021)

Message from the Guest Editor

Increased carbon sequestration by forests is an important element of a comprehensive strategy to reduce net CO2 emissions that contribute to climate change. Silvicultural practices such as site preparation, species and genotype selection, nutrient and residue management, vegetation control, prescribed fire, and thinning have long been used to increase stand productivity and wood biomass, but effects on carbon allocation and storage in understory, forest floor, and mineral soil storage are often neutral or negative. A better understanding of the interaction between silviculture practices, species selection, and soil biogeochemical processes will aid in the development management strategies that maximize carbon sequestration while also maintaining productive capacity and provisioning of other ecosystem services.

This Special Issue explores our current understanding of the relationship between silviculture, forest development, and carbon dynamics in managed forests. Suitable manuscripts may include stand scale experimental studies, regional or landscape modeling analyses, meta-analyses, or reviews.

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