

Special Issue

Management of the Sustainable Forest Operations and Silviculture

Message from the Guest Editors

The concept of naturally growing forests has been gaining attention of late; however, it is crucial to manage forests to ensure their multipurpose functions. The primary aim of silviculture is to guide forest growth. It is essential to implement those same silvicultural concepts through forest operations. Traditionally, silviculture has been understood as directing operational choice; however, every choice has its potential and limitations, which will impact silviculture and may require adaptation. The absence of modern equipment might impede management, while the availability of suitable machinery can open new perspectives for silviculture. Therefore, forest operation planning should also include silvicultural assessment and lead to mutual adaptations for the highest overall benefit. This SI aims to explore the convergence between silviculture and forest operations. It seeks to identify common areas with significant potential for generating synergies and to develop new ideas on how to enhance that integration. Contributions may be based on field studies, remote sensing, or modeling, encompassing traditional methodological approaches as well as the integration of AI tools.

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