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Modelling Mixing Effects in Forest Stands

Guest Editor:

Prof. Dr. Em. Hubert Sterba
Department of Forest and Soil Sciences, Institute of Forest Growth, BOKU University of Natural Resources and Life Sciences, Peter-Jordan-Straße 82, 1190 Vienna, Austria.

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Message from the Guest Editor

Complementarity, i.e., the mixing effects in mixed species forests are increasingly being investigated. Not only growth, but also tree form, foliar distribution, carbon allocation, mortality, resilience, resistance and recovery, crown features and foliar distribution exhibit mixing effects. They are found to depend on species traits, species proportions, stand characteristics like stand density and developmental stage, as well as site quality characteristics.

Growth models of different types and different complexities, whole stand models, distance-dependent and distance-independent individual tree models, statistical and mechanistic models are frequently used to evaluate and study the mixing effects. They have to go beyond case studies and therefore it is interesting to see if, and if yes then how complementarity can be modelled or could be considered in models. Therefore, this Special Issue will concentrate on the possibilities of generalizing relationships that finally lead to complementarity effects on any features of mixed species forest stands.

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Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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