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Forestry Production Process Automation and Robotization

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Message from the Guest Editor

For a long time, forestry was a field of practice and science in which modern techniques and technologies were implemented more slowly than in other domains. However, the global, dynamic technological development in recent decades has resulted in the large-scale use of technologically advanced machines or production control systems based on at least some of the semi-automatic technologies or on robotization. Optimization of the developed solutions is associated with the quantitative and qualitative assessment of information concerning the intrasystem relationships of man-machine environment systems. Such an understanding of the work process is part of the concepts of enterprise management, lean management, or total quality management, which attaches great importance to the appropriate security level and working conditions. Forestry is undergoing the Industry 3.0 development stage, including database digitization, and is on the eve of revolution at the level of Industry 4.0. This near future, based on the integration of the man-machine-information technology system, requires analyses of the current state and development opportunities in the related fields.



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