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Special Issue Reprint

Research Advances in Management and Design of Forest Operations

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Even if global megatrends and operational challenges drive us to operate more efficiently and sustainably across all sectors, forest management must be given more attention. In particular, one of the most important challenges that forest managers will continue to face regards the adaptation of forest management and operations to changing climatic conditions. In recent years, the new concept of climate-smart forestry has arisen. CSF cannot be separated from the sustainable implementation of forest operations. In this context, it is important to consider the new comprehensive research, development and innovation (RDI) studies—improving the cost, energy efficiency and quality of wood-harvesting operations, long-distance transport and forest road planning. In this regard, this Reprint was created with a multi-point-of-view compendium of the research on the management and planning of forest operations to cope with changing climatic conditions and with the modern challenges that forest managers have to deal with.
This collection of papers presents relevant results from scientific researchers about the outcomes of long-time experiences, reviewed by international experts in the forestry and forest operations engineering fields. In particular, this Special Issue aimed to increase the knowledge concerning the climate-smart forest operations, with practical implications at scientific and technical levels.

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