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Title: Optimization of Forest Industry Operations

Abstract: We present optimization systems oriented to improve the operational performance of large forest companies. The first system optimizes truck log transportation, the second is oriented to optimally coordinate harvesting operational decisions in a year horizon, and the third one is a GIS system integrated with a heuristic procedure to optimize road design and harvesting machinery location for forest extraction operation. These systems have been developed and improved over two decades. Its successful use constitutes a strategic tool for big forest companies in Chile and South America.