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Mathematical Modeling in Wood Processing

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Deadline for manuscript submissions:
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Message from the Guest Editor

Wood is gaining recognition as a sustainable building material because it is a natural and renewable resource and has low carbon impact and low embodied energy. There have been significant advancements made in recent years regarding the application of mathematical models in wood processing, such as for the allocation of resources, wood drying, process optimization, and the design of engineered wood products. Mathematical models are helping to optimize wood processes, reducing the need for costly experiments. This Special Issue explores mathematical modeling in wood processing, and addresses the following topics:

- Drying processes;
- Heat and mass transfer;
- Treatment;
- Assessing forest value;
- Enhancing sawing process;
- Reducing energy use;
- Improving product design and testing;
- Maintaining quality and reducing waste;
- Streamlining wood grading.

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