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Modeling the Performance of Wood and Wood Products

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Deadline for manuscript submissions:
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Message from the Guest Editor

Wood is an advantageous building material with respect to its material properties, its renewable character, its sustainable production, and its ability to store sequestered carbon. However, wood can burn, rot, and turn ugly when it is used in an inappropriate way. Hence, substantial efforts are needed to make the performance of wood and wood products more predictable. Mathematical models, survey-based prediction tools, simulation software, and risk mapping can be used to characterize wood and its capacity to withstand external influences in a quantitative way. These are essential instruments for service life planning and the performance classification of wood and wooden products.

In recent years, enormous efforts have been made to improve the methodology and to enlarge the pool of data needed for service planning with wood. We are collecting contributions from wood material science, building physics, timber engineering, wood pathology, and climatology. We encourage studies from all fields to be contributed to this Special Issue in order to promote knowledge and adaptation strategies for service life planning and performance classification of wood products.

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