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Optimization and Simulation in Alloy Cutting Processes (Second Volume)

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Deadline for manuscript submissions:
closed (20 June 2025)

Message from the Guest Editors

Dear Colleagues,

In today's manufacturing environment, including machining processes like turning, drilling, or milling, many industrial factories automate the production processes thus increasing the production efficiency and dimensional accuracy of machine parts. The development of simulation models allows for quick visualization of the chip formation process in a wide range of machining parameters, the course of tool wear and many others phenomenon difficult to observe in real-time. Machining simulation is generally used to optimize cutting processes to improve workpiece quality and determine the correct machining parameters.

This Special Issue aims to present recent advances in the optimization of cutting processes for modern manufacturing engineering, especially CNC machining, application of modern tools for machining difficult-to-cut materials, modeling and computer simulation of machining, and analysis of physical phenomena existing in the decohesion zone of the machined material.

It is my pleasure to invite you to submit original, high-quality research papers, short communications and state-of-the-art reviews for this Special Issue

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Message from the Editorial Board

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