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Machinability and Tribological Performance of Advanced Alloys

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Deadline for manuscript submissions:
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Message from the Guest Editor

Machining constitutes one of the most significant categories of manufacturing processes, dedicated in final component production, including also special, precision parts and difficult-to-machine materials. The challenging aspects of this topic arise from the continuously evolving quality and productivity requirements in modern industry, together also with the innovative aspects of new and smart materials in combination with the energy and environmental regulations imposed in industry.

The tribological performance of alloys plays an important role in the production or service environment, which is closely related to their manufacturing characteristics. The study of tribological behavior more diligently addresses the surface engineering aspects of modern and conventional alloys (bulk or coating form).

Indicative topics included in this thematic issue, are the following:

- Machinability
- Ecofriendly alloys
- Antimicrobial alloys
- Novel and conventional machining processes
- Optimization of machining parameters
- Tribological behavior of alloys
- Tribological behavior of coatings
- Manufacturing of machinable alloys
- High wear resistance alloys and coatings
- Nanostructured coatings

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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