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Advanced Machining of Aerospace Materials

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

The aerospace industry is continuously immersed in processes of innovation and improvement of manufacturing processes. In recent years, the use of advanced materials, such as composites, light alloys, or superalloys, with their excellent properties and relatively low weight, have allowed the reduction of energy consumption, improving the sustainability of the manufacturing. However, some properties of these materials can make them difficult to machine, decreasing process performance. In particular, the combination of materials with very different natures shows high complexity during machining processes. The necessity to comply with rigorous requirements are driving the use of non-conventional machining techniques based on emerging technologies.

The main objective of this Special Issue is to publish outstanding papers presenting cutting-edge advances in the field of advanced machining of aerospace materials.

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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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