

Special Issue

Machining and Finishing of Nickel and Titanium Alloys

Message from the Guest Editors

Dear Colleagues, Nickel and titanium alloys are high-temperature resistant alloys, essential in many applications. However, these materials are also characterized by their low machinability. With the aim of dealing with this drawback, new machining and finishing processes are being developed. They enable optimized component shapes, surface finishing and surface integrity for specific applications. Problems related to machining of components of nickel and titanium alloys are far from being solved. New cooling systems, tools and tool's coatings, new abrasive processes and strategies are being investigated deeply. In addition, friendly and sustainable processes are including in the workshops. The aim of this Special Issue is to highlight recent advancements related to machining and finishing of nickel and titanium based alloys mainly for aeroengine components. Machines, processes, assisted processes and new tools are now in a rapid evolution.

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Deadline for manuscript submissions

closed (31 October 2018)



Metals

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Impact Factor 2.5
CiteScore 5.3



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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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