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Optimizing Techniques and Understanding in Casting Processes

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

The present issue has been intended to show the most recent advances and developments in casting technologies which can be apply in foundry plants to manufacture cast alloys parts. Such improved methods must be oriented to solve problems in the casting processes, make them simpler and better controlled than the usual ones and/or to develop new processes which improve the properties of the resulting alloys and reduce the costs.

- Foundry process
- cast iron
- cast aluminium
- melting
- melt treatment
- pouring
- melt additions
- mechanical properties
- casting technology
- data acquisition
- artificial intelligence
- finishing
- simulation
- filling system
- feeding system
- foundry cost

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Message from the Editor-in-Chief

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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