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High-Productivity Welding of Metals and Alloys

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

Welding is one of the most common joining processes employed in the industry of metal and alloy structures. Nowadays, to be able to compete in the world of advanced joining technologies of materials and, further, to achieve competitive products, the key success factors are quality, productivity, and cost. Innovative welding technologies, such as robotised welding, hybrid welding, and multi-arc and multi-wire welding, need to be developed and applied in fabrication.

Researchers worldwide are invited to contribute to this Special Issue, which aims to disseminate, on a large scale, the recent developments in high-productivity welding technologies, the behaviour of materials subjected to welding, the characterisation of welded joints, numerical modelling of fusion welding, and advanced industrial applications. Experimental studies and simulations covering the intercorrelation of process parameters, microstructure, and properties, such as strength, toughness, hardness, weldability, and corrosion resistance, are encouraged and welcomed.

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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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