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# Welding: State-of-the-Art 2021

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## Message from the Guest Editors

Although competitor manufacturing processes are increasing, welding remains a solid manufacturing technique, able to join similar and dissimilar materials, from small-scale to huge structures. The development of new materials encourages new studies about their ability to be joined by welding, stimulating continuous research in this field. Moreover, new joining processes are always being developed to respond to market demand, fostering new research development and excellent outcomes.

This Special Issue intends to collect high-quality, high-level research studies about the most recent developments in this field, such as research into the weldability of new materials, characterization of weldments in new or alreadyexisting materials and alloys, heat treatment characterization applied to weldments, research on solidstate weldments, simulation regarding welding processes, destructive and non-destructive testing, heat input effects, and everything that is related to welding processes.









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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 metallurgical field the 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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