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Welding and Additive Manufacturing of Metallic Materials

Guest Editors:

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

Dear Colleagues,

The demand for advanced manufacturing processes to fabricate metallic materials is increasing on a daily basis for a wide range of applications. Welding is still a popular fabrication technique for the joining of several parts into a larger component. Although welding is widely used in a variety of applications, it has yet to be fully automated. Various components can be deposited using additive manufacturing. Hybrid manufacturing processes, which combine welding and additive manufacturing, are also in a high demand for a variety of applications.

For this Special Issue in *Metals*, we welcome reviews and articles from scientists, researchers, those within the industry, and engineers in the areas of welding and additive manufacturing. Additionally, we also invite those in the areas of machine learning, artificial intelligence, IoT in welding and AM, Industry 5.0, biomedical, hybrid manufacturing, process modeling, process technology developments, properties, and applications of welding and additive manufacturing to contribute to our Special Issue.

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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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