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# **Determinants of Welding Performance of Crystalline Materials**

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# **Message from the Guest Editors**

Welding and joining are an essential element in manufacturing complex structures and products, from custom products such as aircrafts, ships and medical devices to high volume products such as automobiles, appliances and microelectronics devices. Current trends in product design saw increased usage of lightweight and dissimilar materials, including metal alloys, metal matrix composites, and high entropy alloys. Performance of welds/joints as influenced by their basic properties, processing history, microstructure and operating environment is the core of welding/joining process design. This Special Issue aims to bring together theoretical, simulation and experimental studies related to scientific and/or engineering factors that affect the performance of welding/joining parts.











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## **Message from the Editor-in-Chief**

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