

Special Issue on

# Additive Manufacturing with Metals

Guest Editor:

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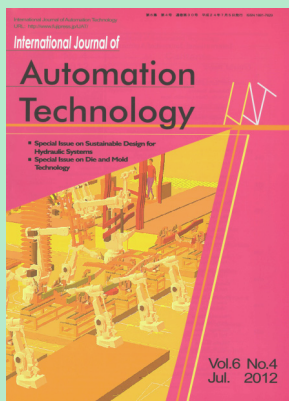
Additive manufacturing (AM) with metals is currently one of the most promising techniques for 3D printed structures, as it has tremendous potential to produce complex, lightweight, and functionally optimized parts. The medical, aerospace, and automotive industries are some of the many expected to reap particular benefit from the ability to produce high quality models with reduced manufacturing costs and lead times. The main advantages of AM with metals are the flexibility of the process and the wide variety of metal materials that are available. Various materials, including steel, titanium, aluminum alloys, and nickel-based alloys, can be employed to produce end products.

This special issue focuses on additive manufacturing with metals, such as powder bed fusion (PBF), directed energy deposition (DED), and wire and arc-based AM. Authors are requested to display a deep understanding of the physical phenomena in order to improve the mechanical properties and the dimensional accuracies of the structures built. We are also interested in a successful industrial application or a development of materials related to each AM technique.

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