Special Issue

Advances in Additive Manufacturing and Their Applications (2nd Edition)

Message from the Guest Editors

Additive manufacturing has evolved rapidly in the last few years. It has been embraced by major industrial companies looking for ways to improve their products. The ability to deliver near-instant part production and fully custom designs that cannot be replicated with other manufacturing techniques has accelerated investment and research in additive engineering. A number of different metals are now available in powdered form to suit exact processes and requirements. Titanium, steel, stainless steel, aluminum, and copper-, cobalt chrome-, titanium- and nickel-based alloys are available in powdered form, as are precious metals such as gold, platinum, palladium, and silver. This Special Issue will cover fundamental studies of additive manufacturing process, optimizations, new additive processes, rapid tooling, and applications from industry to medicine using metal powders as raw materials. I hope that the present Special Issue will be an opportunity for creating a strong network between authors and users, working in some different sectors, for smart applications from industry to medicine.
Dr. Razvan Ioan Pacurar

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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