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Precision Additive Manufacturing Processes

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Message from the Guest Editors

Its unrivalled ability to produce complex 3D parts with considerable reductions in lead-time and material wastage makes additive manufacturing (AM, or 3D printing) a key enabling technology for numerous industrial applications. Especially, AM has the potential to revolutionize manufacturing with new processes, materials and applications. Nevertheless, the precision of AM parts is still an open burning issue that needs addressing, whether metallic, polymer or polymer-based composite components are additively manufactured. The three aspects of a precision process are (1) robust fabrication, (2) predictable performance and (3) measurable quality. Although AM techniques have recently seen increased adoption by various industrial sectors, the precision of the additively manufactured parts remains the main barrier to the full implementation of AM processes and to gaining an increased market acceptance and penetration. This Special Issue aims to collect a broad spectrum of cutting-edge and original research and review studies attempting to improve the precision of additive manufacturing processes and related subjects.

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Message from the Editor-in-Chief

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