Special Issue

Recent Advances in Optimization of Additive Manufacturing Processes

Message from the Guest Editors

Pursuing maximum efficiency, precision, and tolerance control remains a central focus in developing manufacturing processes. The significant advancements achieved in recent years within additive manufacturing, along with the continuous evolution of technology that has expanded its capabilities and applications, have positioned AM as a transformative force in modern manufacturing, capable of meeting the demands of various industries while offering unprecedented design flexibility and efficiency. A significant number of additive manufacturing (AM) optimization cases have benefited from the integration of advanced computing and equipment sensing strategies. This integration facilitates a more responsive design process, allowing for real-time adjustments based on feedback from the manufacturing environment. Data-driven approaches enable optimization methods that utilize historical operational data to inform decision-making in the manufacturing process. This Special Issue aims to explore all aspects of optimization in AM to assist manufacturers in producing efficient parts that excel in their intended applications.

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Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (*JMMP*)(ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP.*

Editor-in-Chief

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