Laser Powder Bed Fusion Additive Manufacturing: Experimental, Simulation, and Machine Learning

Guest Editors:

Dr. Congyuan Zeng
Department of Mechanical Engineering, Southern University and A&M College, Baton Rouge, LA, USA

Dr. Wangwang Xu
Department of Mechanical & Industrial Engineering, Louisiana State University, Baton Rouge, LA, USA

Dr. Shafiqur Rahman
Institute for Micromanufacturing, Mechanical Engineering, Louisiana Tech University, Ruston, LA, USA

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Message from the Guest Editors

Dear Colleagues,

Laser powder bed fusion (LPBF) additive manufacturing represents a cutting-edge frontier in the field of advanced manufacturing technologies. Distinguished for its precision and versatility, LPBF continues to revolutionize how we approach design and production across various industries. This Special Issue is dedicated to exploring the expansive and dynamic realm of LPBF, highlighting the synergy between experimental methods, simulation techniques, and the burgeoning field of machine learning.

We invite researchers, academics, and industry professionals to contribute their latest research papers, communications, and reviews on the experimental, simulation, and machine learning aspects of LPBF. This issue aims to cover a wide spectrum of topics, including, but not limited to, alloy development, process parameter optimization, microstructure analysis, thermal modeling, and data-driven process control in LPBF.

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Special Issue

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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