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Machine Learning in Micro Fabrication

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Message from the Guest Editors

With the rapid advancement of advanced manufacturing (AM) technologies, it is possible to rapidly fabricate complex physical objects in various scales. To monitor and control the manufacturing processes, there are different internal and external sensors producing numerous data in regard to the conditions of the machines. In recent decades, machine learning (ML) has been proved a suitable tool for analyzing large and complex datasets. Therefore, it is unsurprising that ML methods have been introduced for process planning and control. Smart manufacturing, i.e., Industry 4.0, refers to the manufacturing paradigm that makes use of sensors, cloud computing, machine learning, additive manufacturing, and/or advanced robotics to improve manufacturing productivity and cost efficiency. ML serves an important and necessary role in AM systems. Fundamental studies in ML will lead us to create more innovations in smart manufacturing and expand the manufacturing sectors. The objective of this Special Issue is to collect cutting-edge research works focused on the development of ML-based methods for microfabrication.

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Editor-in-Chief

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