Special Issue

Research Progress of Machine Learning and Sensor Technology in Additive Manufacturing

Message from the Guest Editors

Additive manufacturing (AM) has received increased interest from industry due to its potential benefits of reducing costs and lead time, improving manufacturing sustainability, and reducing CO2 emissions. However, a number of challenges stem from not only the complexity of manufacturing systems, but also from the demand for increasingly complex and high-quality products. To tackle these challenges, machine learning (ML) technologies play a critical role. These technologies generally require a completed sensor system and novel sensing technology. The special issues will include theoretical numerical and experimental contributions that describe original research that addresses all aspects of ML research, sensor technology development and application for AM to the context as mentioned above. Potential topics include but are not limited to the following:

- ML methods in DfAM;
- Internet of Things (IoT) for AM;
- ML and sensor technologies in quality control and process optimization for AM;
- Real-time data analytics using smart sensors and ML for AM;
- ML methods for AM sustainability.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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