

Special Issue

Sensor Technologies for Precision Manufacturing

Message from the Guest Editors

Precision manufacturing usually needs to achieve the goals of high precision, high performance and high efficiency, and sensor technology is the main means of manufacturing process state information acquisition, which is particularly important, especially for intelligent precision manufacturing and systems. As a detection element and equipment, the detected signals and data can be converted by sensors into electrical signals or other forms of information output according to certain rules to meet the requirements of information transmission, processing, storage, display, recording and control. The precision manufacturing process requires sensors with high precision, large range, multi-variable detection and characterization, as well as high reliability and high stability. Sensor technology in precision manufacturing mainly involves online and in situ detection of manufacturing equipment and systems, signal transmission, information identification and evaluation, multi-functional signal processing, multi-source error analysis and other key technologies. Its deep integration with artificial intelligence technology will be widely used in various fields of precision manufacturing.

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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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