Special Issue

Advanced Sensing for Smart Precision Manufacturing

Message from the Guest Editors

With the rapid growth in the demand for advanced products and high-precision components for various functional applications in fields such as aerospace, biomedical, advanced optics, photonics and telecommunication, etc., the smart precision manufacturing concepts of Industry 4.0 shed some light and provide important means for the manufacture of those products. Industry 4.0 first originated in Germany for achieving a new level of operational efficiency, productivity and automation. There are several factors which contribute to the successful implementation of smart precision manufacturing based on the Industrial 4.0 concept. One of them is the need for smart equipment and instruments implemented with real-time sensing systems. Research for key technologies for advanced sensing is indispensable for in-process data acquisition and subsequent data analysis and monitoring of the precision manufacturing processes. This Special Issue aims to provide a good collection of the latest research results and findings concerning recent advances in advanced sensing technology for precision smart manufacturing.

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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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