Special Issue

Sensing Technologies in Additive Manufacturing

Message from the Guest Editor

The integration of sensors into additively manufacturing technologies and printed parts has huge potential to address critical aspects, such as monitoring, control, optimization, defect detection, and prevention. This Special Issue explores the cutting-edge applications of sensing technology in various additive manufacturing processes, including Laser Powder Bed Fusion, Directed Energy Deposition, Electron Beam, Binder Jetting, Wire Arc Additive, and Solid-State additive manufacturing. These are the key topics of this Special Issue:

- Innovative sensor technologies for monitoring, control, and optimizing printing processes and enhancing efficiency.
- Utilizing sensors for real-time defect detection and prevention, guaranteeing the production of highquality parts.
- The incorporation of artificial intelligence in conjunction with sensors for online monitoring and the adaptive control of manufacturing processes.
- Embedding sensors within manufactured components to create smart parts that can provide real-time data about their performance and health throughout their lifecycle.
- Employing Additive Manufacturing technologies for direct writing on 3D parts.

Guest Editor

Dr. Ehsan Marzbanrad

Department of Mechanical and Mechatronics Engineering, University of Waterloo, Waterloo, ON N2L 3W8, Canada

Deadline for manuscript submissions

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/ sensors





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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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