

Special Issue

Wire Arc Additive Manufacturing (WAAM): New Trends and Future Perspectives

Message from the Guest Editors

Authors are invited to submit contributions (full length research articles, communications, or reviews) that highlight novel applications of WAAM across diverse industries. Key areas of interest include, but are not limited to, the following:

- Process Development: New processes, process hybridization, laser arc, plasma and multi-wire WAAM;
- Advanced Process Control: Exploring intelligent algorithms and real-time monitoring systems to enhance control over WAAM processes, ensuring precise deposition and superior part quality;
- Material Innovation: Investigating new alloy developments, hybrid material combinations, and the impact of microstructure on mechanical properties to expand the material repertoire for WAAM applications;
- Multi-Material Printing: Examining the feasibility and challenges of multi-material printing with WAAM, opening avenues for complex, multi-functional components with diverse material requirements;
- Industrial Applications: Showcasing successful case studies and practical implementations of WAAM in various industries, emphasizing efficiency gains, cost-effectiveness, and sustainability.

Guest Editors

Dr. Abhay Sharma

1. Department of Mechanical Engineering, Indian Institute of Technology Jammu, Jagti, NH-44, PO Nagrota, Jammu, India
2. Joining and Welding Research Institute, Osaka University, Osaka, Japan

Dr. Angshuman Kapil

Department of Materials Engineering, KU Leuven, Campus De Nayer, 2860 Sint-Katelijne Waver, Belgium

Deadline for manuscript submissions

closed (31 December 2024)



Machines

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Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/190596

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

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE - Electromechatronic Systems Research Centre, University of
Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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