Special Issue

Advances in 4D Printing Technology

Message from the Guest Editors

The 4D printing technology enables printed objects to achieve predefined deformation and functional changes when subjected to external stimuli (e.g., temperature, humidity, light or electric field, etc.) through smart materials. This technology not only possesses the advantages of 3D printing for the flexible manufacturing of complex structures but also gives printed objects the ability to respond dynamically, bringing innovative solutions to various fields. Given the growing importance of 4D printing, this Special Issue aims to report the latest advances at the forefront of this promising technology. It welcomes not only original research articles that advance the knowledge of 4D printing but also encourages review articles that aim to present the state-of-the-art literature. **Possible topics** include the following:

- 4D printing⊠
- Innovative application⊠
- Soft robot⊠
- 3D printing⊠
- Multi-material 3D printing⊠
- Shape Memory Polymers
- Shape Memory Alloys⊠
- Hydrogel⊠
- 4D printing of mechanical metamaterials.

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Deadline for manuscript submissions

30 November 2025



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Impact Factor 2.5 CiteScore 4.7



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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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