

Special Issue

Cyber-Physical Systems in Intelligent Manufacturing

Message from the Guest Editors

With the integration of AI, CPS are transformed in order to enable human–cyber integration and the generation of human–cyber–physical systems (HCPS), in an attempt to improve working environments by further reducing uncertainties due to the presence of human operators. Furthermore, with the integration of HCPS, new opportunities arise for the utilization and synthesis of heterogeneous data derived from cross-domains and cross-layers. Thus, intelligent manufacturing systems will be able to percept, analyze, and assist engineers in decision-making and control processes. Beyond that, due to the nature of AI frameworks, intelligent manufacturing systems are also capable of learning, adapting, and generating knowledge. Therefore, this Special Issue will gather research studies which explore the opportunities and challenges arising from the integration of cutting-edge technologies in modern manufacturing and production systems and networks, as well as studies which discuss the design, development, and implementation of HCPS frameworks for keeping human-in-the-loop.

Guest Editors

Prof. Dr. Dimitris Mourtzis

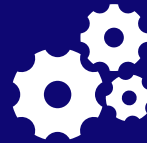
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Deadline for manuscript submissions

closed (15 November 2024)



Machines

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Impact Factor 2.5
CiteScore 4.7



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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.

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