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Cyber-Physical Systems in Intelligent Manufacturing

Guest Editors:

Prof. Dr. Dimitris Mourtzis

Department of Mechanical Engineering and Aeronautics, University of Patras, Rio Patras 26504, Greece

John Angelopoulos

Laboratory for Manufacturing Systems and Automation, Department of Mechanical and Aeronautics Engineering, University of Patras, 26504 Rio Patras, Greece

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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 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.







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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

Message from the Editor-in-Chief

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