Industrial Big Data and Process Modelling for Smart Manufacturing

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Deadline for manuscript submissions:
closed (31 March 2024)

Message from the Guest Editors

Industry and manufacturing are in the process of unprecedented transformations. The goals of these transformations are to enable production with a higher yield, higher quality, lower costs, lower environmental impact and increased flexibility moving from mass production to mass personalization. The emergence of techniques such as deep learning and the spreading of technologies such as the Internet of Things has boosted this evolution, actively supported by new achievements in mathematics and artificial intelligence methods focused on the formalisms and algorithm development.

This Special Issue will gather a collection of articles reflecting the latest developments in artificial intelligence and smart manufacturing, including machine (deep) learning, process modelling, big data, soft computing techniques, cyber-physical systems, reinforcement learning, intelligent multi-agent systems, and others.

Contributions are welcome on both theoretical and practical models. The selection criteria consider the formal and technical soundness, experimental support, and the relevance of the contribution.

mdpi.com/si/56683

Special Issue

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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