Special Issue

Advances in Artificial Intelligence Methods Applications in Industrial Control Systems

Message from the Guest Editor

Artificial Intelligence (AI) applications are considered today to be of increasing relevance for the future of industrial control systems. AI methods are applied more and more at different industrial control systems levels from single automation devices up to the real time control of complex machines, production processes and overall factories supervision and optimization. AI solutions are exploited with reference to different industrial control applications from sensor fusion methods to novel model predictive control techniques, from self-optimizing machines to collaborative robots, from factory adaptive automation systems to production supervisory control systems. The aim of the present special issue is to provide an overview of novel applications of AI methods to industrial control systems, so as to improve the production systems self-learning capacities, their overall performance, the related process and product quality, the optimal use of resources and the industrial systems safety and resilience to varying boundary conditions and production requests. Open for Submissions: https://www.mdpi.com/journal/applsci/special_issues/ai_ industrial_control_systems

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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