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JIDOKA. Integration of Human and AI within Industry 4.0 Cyber Physical Manufacturing Systems

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Message from the Guest Editors

The contributions presented in this Special Issue should combine the application of lean management systematics with artificial intelligence methodologies within the context of cyberphysical systems.

- JIDOKA—intelligent automation with a human touch;
- Predictive maintenance—online monitoring, condition-based maintenance, risk-based maintenance;
- IIoT related to production, safety, and/or health in the workplace, including pollution;
- Industrial applications of smart sensors in, e.g., cloud computing, mobile technologies, 3D printing, advanced robotics, big data, internet of things, RFID technology, and cognitive computing, that enable better value stream performance;
- Applications of smart sensors that optimize the energy consumption of value creation processes and reduce the CO₂ manufacturing footprint, i.e., smart grids;
- Industrial applications of cloud computing, artificial intelligence, machine learning, and deep learning that enable a better value stream performance within smart sensor networks;
- Applications of smart sensor networks to cyberphysical production systems.



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Special Issue



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Message from the Editor-in-Chief

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