



Cyber Physical Production Systems

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Message from the Guest Editor

Without a question, digitalization is one of the major trends in manufacturing—typically associated with terms like Industry 4.0, smart factory or industrial internet—and will have a significant influence on the planning and control of future factories. Cyberphysical production systems (CPPS) are the technical core element of this “4th Industrial Revolution”. As indicated by the name, CPPS consist of a “physical” and an up-to-date “cyber” subsystem (often referred to as “digital twin”) based on continuous data acquisition. With this, decision support or even automatic control functionalities can be enabled. CPPS bear significant potential for improvement and can be applied for production machines, process chains or factories as a whole. Examples can be found in the context of process/machine control, maintenance, energy management, and quality management. However, it is often just singular approaches with a focus on specific CPPS elements or rather conceptual descriptions that can be found so far ...

For further reading, please visit mdpi.com/si/34161.





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Message from the Editor-in-Chief

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