Special Issue

IoT, AI, and Digital Twin for Smart Manufacturing

Message from the Guest Editor

Digital Twin, which plays a significant role in Smart Manufacturing (SM), is seen as the simulation of a physical system. More than a simulation, a twin system can behave according to near real-time data coming from an actual physical counterpart. Currently, the capabilities of digital twins are only promoted to optimize the industrial process when important issues in manufacturing are solved by applying artificial intelligence (AI) and Internet of Things (IoT) technology. Moreover, digital twins are based in the cloud, and the massive amounts of data being collected and utilized are drawn from numerous endpoints that lead to new security threats. The aim of this Special Issue is to highlight innovative developments with respect to the current challenges and opportunities for the applications of an "IoT, AI-Based Digital Twin for Smart Manufacturing". Topics include, but are not limited to:

- Digital twins integrated with IoT and AI
- Smart applications of an IoT, AI-based digital twin
- Data-driven scenarios based on digital twins
- Blockchain and security for digital twins with AI
- Cognitive digital twins

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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