IET Collaborative Intelligent Manufacturing

Call for Papers

Submission Deadline: 1st December 2020 | Publication Date: September 2021

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Special Issue on:
Futuristic Technologies for Intelligent Manufacturing and Supply Chain Management

Intelligent manufacturing combines the perception of people, processes, and machines, to impact the overall economics of manufacturing. Futuristic technologies such as IoT, blockchain, virtual reality, edge computing, etc. combined with manufacturing principles form a platform that is leading toward many innovations across industries. Artificial intelligence (AI) and machine learning now play a leading role in enhancing the quality of the manufacturing process. From significant cuts in unplanned downtime to better-designed products, manufacturers are applying AI-powered analytics on data to improve efficiency, product quality and the safety of employees. Further, manufacturers have benefited from data-driven innovations for demand planning and logistics management (first and last part) of their supply chains. Tracking production across entire processes and managing the supply chain as an integrated platform is now an urgent need. Hence, there is a demand to further explore the futuristic technologies for intelligent manufacturing and supply chain management. The objective of this Special Issue is to provide a platform for discussions on novel, scientific, technological insights, principles, algorithms, and experiences in intelligent manufacturing and supply chain management.

Topics of interest include, but are not limited to:

- Industry 4.0 manufacturing
- Machine learning and AI for intelligent manufacturing
- Big data analytics for intelligent manufacturing
- Application of blockchain technology in manufacturing
- Intelligent approaches for remanufacturing and recycling in smart cities
- Intelligent algorithms and methodologies for smart manufacturing
- Fog and edge computing for industrial automation
- Smart grid for manufacturing units
- 3D printing and robotics related topics
- Immersive technologies in supply chain and manufacturing
- Manufacturing and supply chain impact and futuristic technologies as a Response to the COVID19 related disruptions

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To submit your paper and for more information about the journal please visit: www.ietdl.org/IET-CIM

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