

Special Session Chairs:

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CALL FOR PAPERS: Special Session

Data Processing and Machine Learning in supply chain management

Machine learning and AI-based techniques are the foundation of a broad spectrum of next-generation logistics and supply chain technologies. The wide variation in datasets generated from multimedia tools, Internet of Things (IoT) sensors, healthcare telemedicine services, telematics devices, intelligent transport systems, traffic data, etc. have the potential to drive value for supply chains using Machine learning that it contributes to translate them into useful indicators for management and decision-making. Furthermore Machine learning's most significant contributions are in providing supply chain operators with more significant insights into how supply chain performance can be continuously improved to optimize over time the scheduling of activities and resources and keep stock levels optimally aligned with consumer demand, by highlighting performance gaps, anticipating anomalies in logistics costs before they occur, detailing the impact of proposed actions and trade-offs.

This special session aims at sharing the most the recent developments in the field of **supply chain management using Machine learning algorithms, AI-IoT devices and blockchain technology**. The topics of this special session include (not limited to):

- End-to-end supply chain visibility with Machine learning
- Blockchain-enabled supply chain enhanced by IoT and Machine learning
- Machine learning for Resources and Production planning
- Predictive maintenance scheduling and quality inspection with Machine learning
- Machine learning for warehouse optimization
- Machine learning for demand forecasting and sensing in supply chain planning
- Natural language processing and information retrieval processing in supply chain (smart human-machine interfaces)
- Autonomous Mobile Robot (AMR) and guided vehicles
- Machine learning to manage the Product Lifecycle Management (PLM)
- Life Cycle Cost Analysis (LLCA) and Machine learning
- Machine learning into Order-to-Cash and Procure-to-Pay cycle

For further information, please contact iptta20@gmail.com

