2019 IEEE International Conference on Industrial Informatics (INDIN'19)

Special Session/Organized Session on

Innovative Service Life Cycle Management and Applications in Cloud Manufacturing

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Call for Papers

Cloud manufacturing is a novel advanced manufacturing paradigm that encapsulates distributed resources into cloud services and provides them to consumers over the Internet through centralized management and operation. Service is a core concept in cloud manufacturing, and innovative, effective management of services in different stages throughout the entire life cycle (ranging from service creation, service application, service evolution, to service demise) is critical for the successful implementation and operation of cloud manufacturing. During the past years, many new technologies such as deep learning and its fusion with reinforcement learning, block chain, big data analytics, digital twin were growing at an unprecedented pace, which provides new enabling technologies for innovative service life cycle management and applications. In this context, this special session aims to provide a forum for people from academia and industry to share their innovative research outcomes on

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service life cycle management and applications in cloud manufacturing using the above-mentioned new technologies.

Topics of interest include, but are not limited to:
- Data collection, processing and analysis
- Precise control based on edge intelligence
- Service digital twin modeling and digital description
- Service big data analysis
- Service searching, matching, selection, composition and scheduling
- Service transaction
- Service evolution
- Service-based supply chain management
- Service safety, security, and trust management
- Machine learning and block chain for service life cycle management
- Block chain-based service management architecture
- Knowledge graph-based service knowledge management
- Service-based creation of APPs for manufacturing
- Machine learning and block chain-based service life cycle applications

Submissions Procedure and Deadlines: All the instructions for paper submission are included in the conference website **https://www.indin2019.org/**

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