The conference will cover all topics related to design, implementation and operation of modern manufacturing systems in digitalization era, including (but not limited to) the following:

- Analytics, optimization and machine learning in manufacturing and supply chains
- Digital supply chain
- Data-driven applications in manufacturing
- Design and reconfiguration of manufacturing systems
- Facility planning and materials handling
- Industry 4.0
- Digital manufacturing networks and smart operations
- Artificial intelligence applications to manufacturing
- Inventory control, production planning and scheduling
- Risk management, resilience and flexibility
- Logistics, supply chains and networks
- Supply network dynamics and control
- Control theory applications to production systems and supply chains
- Operations and supply chain simulation
- Sustainable manufacturing
- Business analytics for manufacturing systems
- Market responsive supply chains
- Enterprise modelling, integration and networking
- Information, systems, control and interoperability
- Information management for the Net-Enterprise
- Modeling, simulation, control and monitoring of manufacturing processes
- Robotics in manufacturing
- Intelligent manufacturing systems
- Intelligent transportation
- Service oriented architecture for production management and control
- Knowledge management in production
- Fostering innovation in manufacturing
- Monitoring, diagnosis and maintenance of manufacturing systems
- Complex adaptive systems and emergent synthesis in manufacturing
- Web-enabled manufacturing control and wireless automation
- Design for reusability
- Maintainability, reliability, safety and dependability of production systems
- Quality management
- Virtual reality
- Sensor networks, ubiquitous computing, active identifiers, wireless communication in manufacturing
- Distributed systems and multi-agents technologies
- Discrete event systems in manufacturing
- Simulation technologies
- Operations research
- Probabilistic models in industrial plant control
- Industrial and applied mathematics for production

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