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28/29/30 August 2019  
Berlin, Germany

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9<sup>th</sup> IFAC Conference  
on Manufacturing Modeling,  
Management, and Control

MIM 2019 – Call for Papers



Hochschule für  
Wirtschaft und Recht Berlin  
Berlin School of Economics and Law

# Key dates

**15 December 2018**  
Paper submission deadline

**December 2018**  
Registration opens

**20 February 2019**  
Notification to authors

**15 March 2019**  
Final paper submission deadline

**31 March 2019**  
Early registration rates expire

**28/29/30 August 2019**  
IFAC MIM 2019 Conference in Berlin

**The central theme of the 9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019 will be**

## Digital, Resilient and Sustainable Manufacturing 4.0

Digitalization, resilience, and sustainability shape current and future trends in manufacturing modelling, management, and control. The aim of MIM 2019 is to bring together researchers and practitioners in industrial engineering, manufacturing systems, operations research, supply chain management, and business informatics to present and discuss emerging topics in modern manufacturing modeling, management, and control. MIM'2019 will follow a rich tradition of previous IFAC conferences and symposia in Manufacturing and Logistics held in Germany. MIM'2019 will focus in particular on the most innovative methods proposed in the last few years in the context of digitalization, risk management, and resilience in production and logistics systems in the 21st century.

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

## Call for Invited sessions and tracks:

Invited sessions consist of 5-6 papers of the regular format focusing on targeted subjects and presenting a unifying theme. Invited session organizers should submit an abstract that summarizes the aim and the content of the invited session. A code will be assigned to such a session. The invited author should submit their papers by using this code. If at least 5 papers are accepted, the session is included in the conference program as an invited session. If an invited session is not accepted, accepted papers submitted to this session will be included in regular sessions. Invited sessions, grouped together in a track must be submitted independently. The track chairs are asked to contact the organizers prior to session proposal submissions.

## Call for Contributed Papers

Authors may submit a contribution independently of invited sessions. They are invited to submit papers (6 pages) reporting original research of theoretical or applied nature as contributed paper. All paper submissions as well as Invited Session Proposals must be electronically submitted through the PaperPlaza Conference Manuscript Management System. Post-conference Proceedings will be published in IFAC-PapersOnLine (Elsevier). Special issues are planned in a number of prestigious International Journals.

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