

## Open Invited Track on “Intelligent Methods and Systems supporting Supply Chains Decision Making” for IFAC MIM 2019

### Open Invited Track identification code 43v1q

9<sup>th</sup> IFAC Conference on Manufacturing Modeling, Management, and Control (MIM 2019)  
Berlin, Germany, 28/29/30 August 2019  
<https://blog.hwr-berlin.de/mim2019/>  
<https://ifac.papercept.net/>

#### Session Chairs:

- Prof. Dr.-Ing. Enzo Morosini Frazzon, Federal University of Santa Catarina, BRAZIL
- Prof. Dr.-Ing. Michael Freitag, Universität Bremen, Bremen, GERMANY
- Prof. Dr.-Ing. Carlos Eduardo Pereira, Federal University of Rio Grande do Sul, BRAZIL
- Prof. Dr. Shimon Y. Nof, Purdue University, USA

The integration of supply chains leads to increasing complexity, so that operational planning needs to be supported by proper decision-making models along with intelligent systems. Decision-making models can be based on optimization, simulation, or hybrid methods and approaches. At the same time, intelligent systems are composed by data acquisition and data processing, as well as communication systems embedded in technological devices. The proper exchange of data between the physical process and intelligent systems allows for the emergence of adaptive, agile and resilient supply chains.

#### Track topics:

The track chairs invite scientists, engineers and decision makers from government, industry and academia to contribute with theoretical and applied research papers. The session will cover the technology-based integration of different supply chain tasks, such as: production planning, scheduling and control, transportation and logistics planning, scheduling and control, inventory planning and warehouse management and operations, manufacturing systems operations as well as coupled services and technologies which can lead to improved supply chains. The aim of this session is to attract high-quality papers in these areas including topics such as: Modeling, simulation, analysis, and control of manufacturing processes; Monitoring, diagnosis and maintenance of manufacturing systems; Smart manufacturing systems and Industry 4.0 technologies. Special attention will be directed towards practical relevance and approaches that can foster innovation in manufacturing supply chains.

#### Submission

For author guidelines, please refer to [www.ifac-control.org](http://www.ifac-control.org). All papers must be submitted electronically at <https://ifac.papercept.net/>. All papers must be prepared in a two-column format in accordance with the IFAC manuscript style. Please use the official IFAC instructions and template to prepare your contribution as full-length draft paper and submit it on line.

Submission details are available on the symposium website. All submissions must be written in English. All papers that conform to submission guidelines will be peer-reviewed by IPC members.

The corresponding author submits the paper online (pdf format) as Open Track paper. Submission as an invited paper requires the use of **Open Track code 43v1q**.

Several international journals are associated with the MIM 2019 for publication of special issues.

Open Track paper submission closure	31 <sup>st</sup> October 2018
Open Track paper notification of acceptance	20 <sup>th</sup> February 2019
Final paper submission deadline	15 <sup>th</sup> March 2019
Early registration rates expire	31 <sup>st</sup> March 2019