Open Invited Track on “Intelligent Methods and Tools supporting Decision Making in Manufacturing Systems and Supply Chains"

Open Invited Track code => 135cr

INCOM 2021
7-9 June 2021 Budapest
17th IFAC Symposium on Information Control Problems in Manufacturing
https://incom2021.org/index.html

Chairs:
- Prof. Dr.-Ing. Michael Freitag, University of Bremen, Bremen, GERMANY
- Prof. Dr.-Ing. Enzo Morosini Frazzon, Federal University of Santa Catarina, BRAZIL
- Prof. Dr.-Ing. Carlos Eduardo Pereira, Federal University of Rio Grande do Sul, BRAZIL

This track is concerned with the development of management decision-support systems in digital, resilient and sustainable manufacturing and supply chain systems in the era of Industry 4.0 based on combination of Industrial Engineering, OR and Data Science:

In this context, the integration of manufacturing and logistics along supply chains leads to increasing complexity, so that operational planning needs to be supported by proper decision-making models, methods, and software tools. Such systems can be based on simulation, optimization, data analytics, machine learning and combinations of these. At the same time, these systems are connected to sensors for data acquisition and as well as communication systems to exchange data and information both in vertical and horizontal direction. The proper exchange of data between the physical process and intelligent systems allows for the emergence of adaptive, agile and resilient manufacturing systems and supply chains.

Keywords: Modeling of manufacturing operations; Production planning and control; Logistics in manufacturing

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 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 manufacturing systems and 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 and supply chains.

Submission
For author guidelines, please refer to 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 online. 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 open track paper requires the use of the code 135cr.

<table>
<thead>
<tr>
<th>Draft paper submission</th>
<th>30th September 2020</th>
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<tbody>
<tr>
<td>Notification of acceptance/rejection</td>
<td>1st December 2020</td>
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<tr>
<td>Camera-ready final manuscripts</td>
<td>1st February 2021</td>
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