

Open Invited Track for IFAC MIM 2019

“New modes for manufacturing and logistics in Industry 4.0 for hedging uncertainties”

IFAC MIM 2019, August 28-30, 2019, Berlin, Germany

Code: **s37e4** <https://ifac.papercept.net/>

Track Chairs:

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Motivations:

In recent years, the concept of Industry 4.0 has attracted a lot of attention due to its increasing benefits in different kinds of industries, and new paradigms, principles, and models have appeared in manufacturing and logistics industries. However, they also have brought plenty of challenges, such as improper planning or scheduling, large amounts of energy cost and various hedging uncertainties. Therefore, new intelligent solution methods should be developed to cope with manufacturing and logistics under uncertain environment. To this respect, this track aims at presenting new innovative models and optimization techniques about the planning and scheduling in manufacturing and logistics for hedging uncertainties.

Topics:

This track is devoted to providing a spectrum of new manufacturing and logistic modes in Industry 4.0, under uncertain environment. Experts, scholars or engineers who are interested in this track can contribute their research with the following topics (not limited):

- *The concept of Industry 4.0 under uncertainty,*
- *New manufacturing modes within different industries,*
- *New manufacturing modes with additional constraints,*
- *New planning and scheduling approaches during manufacturing,*
- *New transporting and logistic systems with high efficiency,*
- *Energy-oriented and green-oriented manufacturing or logistics,*
- *IT support for manufacturing and logistics,*
- *Different types of hedging uncertainties,*
- *Different approaches for uncertainties,*
- *Different algorithms for the problems.*

Purposes:

The purpose is to bring together experts and attract high-quality papers in this field, so as to collect innovative manufacturing and logistic modes. Besides, models and algorithms are expected to be developed for them. We greatly encourage the insights of technologies and theories to operate uncertainties in Industry 4.0.

Submission:

For author guidelines, please refer to www.ifac-control.org. All papers must be submitted electronically using Symposium Manuscript Management System (CMMS). 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 by December 15, 2018. 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 **an open invited track paper**. Submission as an invited paper requires **the open invited track code s37e4**. Several international journals are associated with MIM 2019 for special issue publication.

Important dates:

December 15, 2018	Deadline for the submission
February 20, 2019	Notification of acceptance/rejection
March 15, 2019	Deadline for the final submission