

CALL FOR PAPERS - SPECIAL SESSION

“Data-Driven Manufacturing Systems Design”

for **CODIT 2023**

July 03-06, 2023 ▪ **Rome, Italy**

Session Co-Chairs:

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Session description:

When designing a production system, all the functional and technological alternatives must be studied to guarantee an optimal productivity while respecting many constraints such as: quality standards, manufacturing process safety, environmental impact, and other economic constraints. It is essential to evaluate different alternatives to choose the best system configuration and perform an optimal system design. The aim of this session is to present new approaches and methods for modeling and evaluating the performance of different manufacturing systems. We will focus on the development and analysis of performance evaluation models of manufacturing systems using analytical methods (decomposition, aggregation, and equivalent machine), Markovian and queuing analysis, simulation, and inventory control approaches. Specific topics of interest include but are not limited to:

- Design of production lines under uncertainty and stochastic disturbances.
- Application of Markovian and queuing models to the analysis of manufacturing systems.
- Performance evaluation using simulation and Petri Nets.
- Integrated productivity and quality models, and their analysis.

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 27, 2023:**

<http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDiT 2023 link** “Submit a Contribution to CoDiT 2023” and follow the steps.

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

January 27, 2023: deadline for paper submission

April 15, 2023: notification of acceptance/reject

May 20, 2023: deadline for final paper and registration