



10th International Conference on Control,
Decision and Information Technologies

July 01 - 04, 2024

Valletta, Malta

CALL FOR PAPERS - SPECIAL SESSION

“Production and Supply Planning Under Uncertainty”

for CODIT 2024

July 01-04, 2023 ▪ Valletta, Malta

Session Co-Chairs:

Dr. **Ilhem Slama**, Université de Technologie de Troyes, LIST3N, 12 rue Marie Curie, 10010 Troyes, France (email: Ilhem.slama@utt.fr)

Dr. **Taha Arbaoui**, INSA Lyon, Université Lumière Lyon2, Université Claude Bernard Lyon1, Université Jean. Monnet Saint-Etienne, DISP UR4570, Villeurbanne, 69621, France (email: taha.arbaoui@insa-lyon.fr)

Dr. **Malek Masmoudi**, College of Engineering, Sharjah University, Sharjah, UAE, and University of Jean-Monnet, Saint Etienne, France (emails: mmasmoudi@sharjah.ac.ae, malek.masmoudi@univ-st-etienne.fr)

Session description:

Background: Managing uncertainty during operational planning poses a considerable challenge within industrial environments.

Sources of uncertainty: Sources of uncertainty are diverse and can be found at many levels of the supply chain: lead times, demand, prices, performance, and capacity.

Session objective: This session aims to bring the latest contributions, thinking and innovative methods to better master decisions in uncertain environments.

Expected contributions: Expected contributions may concern different decision-making levels, using for example stochastic optimization, robust optimization, fuzzy logic, etc.

The topics of interest include, but are not limited to:

- **Dynamic pricing strategies:** Investigating dynamic pricing models that can adapt to fluctuating market conditions and demand uncertainties.
- **Optimal inventory management:** Discussing innovative inventory management approaches that balance the trade-off between stockouts and excess inventory in uncertain environments
- **Multi-Objective decision-making:** Addressing the challenges of decision-making when multiple conflicting objectives are present, especially in the context of uncertain parameters.
- **Data-Driven decision support systems:** Showcasing the role of data analytics and decision support systems in extracting actionable insights from large datasets to inform decision-making.
- **Simulation modeling for uncertainty analysis:** Demonstrating the use of simulation models to analyze the impact of uncertainties on industrial operations and evaluate the effectiveness of different decision strategies.
- **Sustainable operations in uncertain environments:** Discussing how sustainability goals can be integrated into decision-making processes in the face of uncertainties.

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 03, 2024:** <http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2024 link** “Submit a Contribution to CoDIT 2024” 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

February 03, 2024: deadline for paper submission

April 14, 2024: notification of acceptance/reject

May 10, 2024: deadline for final paper and registration