



11th International Conference on Control,
Decision and Information Technologies

July 15- 18, 2025

Split, Croatia

CALL FOR PAPERS - SPECIAL SESSION

“Data-Driven Approaches for Smart Manufacturing”

for CODIT 2025
July 15-18, 2025 ▪ Split, Croatia

Session Co-Chairs:

Dr. Nhan-Quy Nguyen – Université de Technologie de Troyes (nhan_quy.nguyen@utt.fr)

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Session description:

The digital transformation of manufacturing is accelerating with the rise of AI-driven and data-driven approaches. Modern smart manufacturing systems must integrate real-time data analysis, machine learning models, and optimization techniques to improve efficiency, resilience, and sustainability. The complexity of today's manufacturing processes requires innovative modeling, decision-support, and predictive analytics to handle uncertainty, stochastic variations, and large-scale data streams.

The goal is to focus on advanced methodologies for designing, optimizing, and evaluating next-generation manufacturing systems, incorporating AI, digital twins, reinforcement learning, and hybrid analytical-simulation approaches. We aim to highlight novel strategies that leverage big data, IoT, and intelligent decision-making to enhance production planning, scheduling, and supply chain robustness.

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

- AI and machine learning for manufacturing optimization
- Digital twins and cyber-physical systems for smart factories
- Stochastic and uncertainty-aware production line design
- Markov decision processes and reinforcement learning for manufacturing
- Hybrid modeling: combining simulation, deep learning, and operations research
- Real-time data analytics and edge computing for industrial decision-making
- Autonomous systems and human-in-the-loop optimization
- Energy-efficient manufacturing and green production models

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 07, 2025:**

<http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the CoDiT 2025 link “Submit a Contribution to CoDiT 2025” 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 07, 2025: deadline for paper submission

April 27, 2025: notification of acceptance/reject

May 17, 2025: deadline for final paper and registration