CALL FOR PAPERS - SPECIAL SESSION

"Models and Methods for Sustainable, Resilient, and Efficient Supply Chains"

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

Session Co-Chairs:

Dr. Matthieu Godichaud, University of Technology of Troyes, France - (email: matthieu.godichaud@utt.fr)

Dr. Yassine OUAZENE, University of Technology of Troyes, France - (email: yassine.ouazene@utt.fr)

Dr. Murat AFSAR, University of Technology of Troyes, France - (email: Murat.Afsar@utt.fr)

Session description:

The evolving complexity of global supply chains has heightened the need for models and methods that not only enhance cost efficiency but also address resilience, sustainability, and adaptability. Traditional approaches focused on cost optimization often neglect the broader challenges posed by disruptions, environmental constraints, and shifting market demands. These low-probability, high-impact disruptions necessitate strategies that balance economic performance with robustness, adaptability, and sustainability.

This session seeks to explore innovative methodologies and frameworks to design and optimize supply chains capable of meeting these multifaceted objectives. It welcomes contributions addressing supply chain design, flow allocation, inventory and capacity planning, and network fortification. Particular attention is given to approaches that incorporate stochastic modeling, data-driven decision-making, and emerging technologies to address sustainability goals, circular economy integration, and social impact alongside traditional metrics.

Topics of interest include, but are not limited to:

- Design of resilient, agile, or sustainable supply chain networks
- Integration of reverse logistics and circular economy principles into supply chain design
- Performance metrics for balancing cost, resilience, sustainability, and social responsibility
- Simulation and optimization models for sustainable supply chains
- Stochastic programming and data-driven approaches for uncertainty management in supply chains
- Inventory and capacity planning under disruption scenarios with environmental constraints

Keywords: Supply chain, sustainability, resilience, stochastic programming, optimization, circular economy, performance metrics

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