CALL FOR PAPERS - SPECIAL SESSION

"Sustainable, Intelligent, Resilient Supply Chain Management: Optimization, AI and Real-World Challenges"

for CODIT 2026

July 13-16, 2026 ▪ Bari, Italy

Session Co-Chairs:

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Session description:

Global supply chains are becoming increasingly complex, interconnected, and vulnerable to disruptions caused by geopolitical tensions, natural disasters, pandemics, and rapid market fluctuations. At the same time, sustainability requirements such as environmental protection, social responsibility, and economic efficiency, have become central to modern Supply Chain Management (SCM). These challenges call for innovative approaches that combine artificial intelligence techniques and optimization to improve sustainability and resilience.

This special session aims to bring together researchers, practitioners, and decision-makers to explore novel models, methodologies, and real-world applications that integrate sustainability, resilience, and intelligent decision-making in SCM. Particular emphasis is placed on advanced optimization techniques, artificial intelligence (AI), and data-driven frameworks that enable adaptive, efficient, and responsible supply chain operations under uncertainty.

Transportation activities are among the main contributors to greenhouse gas emissions, making logistics decarbonization a key issue. Solutions such as electric vehicles, fleet electrification, emissions-aware planning, and renewable energy integration are essential for reducing CO_2 emissions and improving environmental performance in supply chains.

In parallel, AI and digital technologies offer powerful tools for enhancing sustainability and resilience. AI-enabled optimization, predictive analytics, and adaptive planning support better resource utilization, reduced fuel consumption, and improved responsiveness to disruptions. The session also acknowledges the social dimension of sustainability, including human welfare, equitable working conditions, and the societal impact of supply chain decisions, which are increasingly recognized as critical for long-term value creation.

Emerging technologies, such as drones, further expand opportunities for sustainable and resilient logistics, particularly for last-mile delivery and operations in constrained or disrupted environments.

The session invites contributions that showcase theoretical advances, methodological developments, or impactful applications at the intersection of sustainability, intelligence, and resilience in supply chain management.

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

- Optimization in Supply Chain Management
- Artificial Intelligence and Data-Driven Decision Making
- Sustainable Supply Chain Design and Planning
- Resilient and Robust Supply Chain Systems
- Machine learning, predictive analytics, and AI-enhanced optimization for supply chain and logistics systems.
- Heuristics, Metaheuristics, and Hybrid Optimization Approaches
- Advanced solution methods for large-scale and real-world supply chain problems.
- Multi-Objective and Multi-Criteria Decision Analysis
- Trade-off analysis between cost, service level, environmental impact, and social performance.
- Dynamic and Stochastic Decision Models
- Emissions-aware planning, decarbonization strategies, electric vehicles, and sustainable transport systems.
- Digital Technologies for Intelligent Supply Chains
- Blockchain, Internet of Things (IoT), digital twins, and data platforms for transparency, traceability, and coordination.
- Autonomous and Emerging Technologies in Supply Chains and Logistics

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SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 07, 2026:** **http://controls.papercept.net/conferences/scripts/start.pl**. In PaperCept, click on the **CoDIT 2026 link "Submit a Contribution to CoDIT 2026" 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, 2026: deadline for paper submission

April 30, 2026: notification of acceptance/reject

May 20, 2026: deadline for final paper and registration