AI&SCM4sustainability

Special Session on AI Potential for Sustainable Goals in Organizations and Supply Chains

at the **2nd IEEE Afro-Mediterranean Conference on Artificial Intelligence** (**2025 IEEE AMCAI**)
Valenciennes, France, October 14-16, 2025
Conference website: https://amcai-atia.tn/

Special Session Organizers

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Objectives and topics

The fourth industrial revolution driven by technologies, such as Artificial Intelligence, Machine Learning, robotics, Data Analytics, Internet of Things (IoT), Cloud Computing, and Blockchain, has changed the long-term objectives of organizations and value chains. Supply Chain 4.0 is a new paradigm that connects partners to facilities, distribution points, and products virtually through the Internet. This remarkable growth of technology has converted organizations and supply chains into more effective, sustainable, and environmentally friendly ones. The sustainability of supply chain

management has gained noteworthy interest in the last decades. This special issue unlocks the potential of 4.0 industry enablers technologies, especially AI, in achieving sustainable goals and initiatives through digital networks and within organizations.

Moreover, there is an academic consensus around the key skills and capabilities that managers require in the AI era: technological and managerial skills. Managerial skills are essentially the ability to manage change, emotional intelligence, and management of talent.

The scope of the session "AI Potential for Sustainable Goals in Organizations and Supply Chains" 2025 includes, but is not limited to the following topics:

- 4.0 supply chain and organizations enablers technologies
- AI potential in digital supply chain and within organizations
- Sustainability-digital twin; drivers and barriers
- Dynamic capabilities and technological capital; digital competencies as enablers to sustainability
- Managerial skills (competencies) and efficiency in the digital era
- AI-Driven Predictive Analytics and circular business model
- The Role of Robotics in Modern Warehousing
- Leveraging IoT for Real-Time Supply Chain Visibility
- Blockchain Technology for Supply Chain Transparency
- Cloud Computing Solutions for Scalable Supply Chains
- Sustainable Practices in Supply Chain 4.0
- Digital Twins: Revolutionizing Supply Chain Management
- Essential Skills for Managers in the AI Era
- Ethical Implications of AI in Supply Chains and within organizations
- Case Studies of Successful Emerging Technologies Implementations and corporate sustainability
- Social Media and AI for Sustainability Awareness and Engagement
- Robotics and AI in Sustainable Healthcare Solutions
- Human-AI Collaboration for Sustainable Innovation
- AI-Powered Personalization and Ethical Consumer Engagement
- AI and Bots: Shaping the Future of Digital Marketing
- AI and the Evolution of Digital Influence
- Text Mining and AI-Enhanced Digital Strategies

Important dates

Paper Submission deadline: April 15, 2025
Authors Notification: June 15, 2025
Camera Ready and Registration: July 05, 2025
Conference date: October 14-16, 2025

Program Committee

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Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. The contributions should address research questions that relate to one of the topics listed above.
Authors are invited to submit their papers electronically in pdf format, through EasyChair at https://easychair.org/conferences/?conf=amcai2023. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: ***AI Potential for Sustainable Goals in Organizations and Supply Chains***

Manuscripts should be prepared in 10-point font using the IEEE 8.5" x 11" two-column conference format
https://www.ieee.org/conferences/publishing/templates.html

Submitted papers are written in English, between 6 to 8 pages (including all figures, tables, and references).

Submissions not following these guidelines may be rejected without review. Also, submissions received after the due date, exceeding the length limit, or not appropriately structured may also not be considered.
To ensure high quality, all submissions are blind peer-reviewed by at least three reviewers from the ***AI Potential for Sustainable Goals in Organizations and Supply Chains 2025 Program Committee***.
All accepted papers must be presented by one of the authors who must register for the conference and pay the fee.
All accepted and presented regular papers will be submitted to IEEE Xplore for inclusion.