**Invited Session on "Generative Artificial Intelligence in Operations and Supply Chain Management"
for IFAC MIM 2025**

Invited session identification code *a36k4*
IFAC MIM 2025, Trondheim, Norway, 30 June - 3 July 2025

https://ifac.papercept.net/

Session Chairs:
- *Prof. Dr. Samuel Fosso Wamba, TBS Education, Toulouse, FRANCE*
- *Prof. Dr. Maciel M. Queiroz, FGV EAESP, Sao Paulo, BRAZIL*

With the emergence of the digital age, firms and supply chains are experimenting with opportunities and challenges to reshape their business models. With generative artificial intelligence (Gen-AI), a highly disruptive cutting-edge technology based on large language models, generative adversarial nets, variational autoencoders, etc., the operations' efficiency, challenges, transparency, and security of the transactions are being reshaped. Gen-AI is an artificial intelligence related to algorithms capable of building new content (i.e., text, images, equations, articles, music, etc.). Since the recent emergence of ChatGPT in November 2022, all types of businesses have been shaken.

On the one hand, Gen-AI promises to remodel the traditional operations models, bringing more agility, efficiency, and productivity. On the other hand, there are many concerns about Gen-AI, mainly related to ethical issues, safety, transparency, and trust. Despite the recent progress made by the literature exploring Gen-AI in OSCM, empirical studies are still in their infancy. Consequently, they require an urgent discussion involving academia, industry practitioners, government, and society.

This Invited Session aims to unlock and illuminate the Gen-AI applications in OSCM. We call on the community to investigate the value generated by this integration, map the main challenges, and develop strategies to overcome them. Thus, we are interested in empirical papers that bring managerial solid and theoretical contributions to the body of knowledge, as well as thought-provocative discussions and frameworks about the Gen-AI applied in OSCM to create/improve performance and how this integration contributes to the business value of the firms and supply chains in the age of the severe disruptions and geopolitical tensions. We are interested in methodologies/design research (but not limited to) quantitative (surveys, experiments), qualitative (case studies, discourse analysis), and mixed-methods approaches.

Session topics:
The session chairs invite scholars, researchers, and practitioners from academia, industry, and government to contribute empirically, theoretically, and applied research papers in areas including but not limited to the following topics/questions: How can Gen-AI improve efficiency, flexibility, agility, and performance of the OSCM? What are the Gen-AI capabilities required to add value to OSCM? How can Gen-AI contribute to facing the prolonged crises that disrupt the OSCM? How can Gen-AI support OSCM resilience? What are the critical success factors of Gen-AI in OSCM? What are the main ethical concerns about using Gen-AI to support OSCM?

Submission
For author guidelines, please refer to *https://ifac.papercept.net/conferences/scripts/start.pl*. All papers must be submitted electronically using the Symposium Manuscript Management System (CMMS). All papers must be prepared in a two-column format in accordance with the IFAC manuscript style. Please use the official IFAC instructions and template to prepare your contribution as a full-length draft paper and submit it online by November 30, 2024. Submission details are available on the symposium website. All submissions must be written in English. All papers that conform to submission guidelines will be peer-reviewed by IPC members. The corresponding author submits the paper online (pdf format) as **an invited session paper**. Submission as an invited paper requires the **invited session code *a36k4.*** Several international journals are associated with the MIM 2025 for the publication of special issues.

Key dates:

November 30, 2024	
	Full regular papers, papers for invited tracks/sessions, extended abstracts deadline
January 30, 2025	
	Notifications to authors, Registrations open
February 28, 2025	
	Camera-ready paper submission deadline