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20th International Forum on Knowledge Asset Dynamics

Knowledge Futures: AI, Technology, and the New Business Paradigm

IFKAD 2025
2-4 JULY 2025
NAPLES, ITALY

CALL FOR ABSTRACTS – IFKAD 2025

Special Track n.: 09

Thematic Area: AI and Supply Chain

Leveraging AI for Supply Chain Resilience, Control Tower Optimization, and Knowledge Management: Delving into the complex role of Generative AI Technologies

Description

As global supply chains continue to grow in complexity, organizations must adapt to an increasingly volatile and unpredictable environment *(Faggioni et al., 2023; 2024)*. Events like the COVID-19 pandemic, Ukraine-Russia war and so on have revealed vulnerabilities in supply chain systems, spurring the adoption of advanced technologies to bolster resilience and improve decision-making processes *(Ivanov & Dolgui, 2020)*. Emerging digital tools, particularly Artificial Intelligence (AI), Control Towers, and knowledge management systems, are proving essential in creating more adaptive, flexible, and responsive supply chains *(Gupta et al., 2021)*.

This track focuses on the integration of AI and Control Tower technologies to enhance supply chain resilience while emphasizing the critical role of knowledge management and Generative AI (GAI). GAI technologies offer powerful predictive capabilities, real-time analytics, and intelligent automation, transforming how supply chains operate *(Bécue et al., 2021)*. Control Towers, with their ability to provide end-to-end visibility and monitor key supply chain metrics, are further revolutionizing operational control *(Goldbeck et al., 2020)*. But alongside these technological advances, the effective management of knowledge—both tacit and explicit—is pivotal to ensure that organizations can leverage data insights for strategic advantage *(Etemadi et al., 2021)*.

Knowledge Management (KM) is particularly vital in the age of GAI, where the ability to store, share, and utilize organizational knowledge can significantly impact decision-making and innovation *(Furstenau et al., 2022)*. By combining AI-driven analytics with KM systems, businesses can enhance their ability to forecast risks, reduce disruptions, and drive continuous improvement *(Gupta et al., 2021)*. This track will explore how companies can integrate KM strategies with AI and Control Towers to create dynamic supply chains that not only survive but thrive in uncertain conditions *(Belhadi et al., 2021)*.

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We invite contributions that address the following topics:

- AI-driven innovations for supply chain resilience and decision-making *(Belhadi et al., 2021)*.
- The role of Control Towers in enhancing visibility and real-time management *(Goldbeck et al., 2020)*.
- Knowledge Management strategies to support AI and data-driven supply chains *(Gupta et al., 2023)*.
- The ethical implications of AI and KM systems in supply chain management *(Behl et al., 2023)*.
- Data integrity and security in AI-powered and KM-enhanced supply chains *(Furstenau et al., 2022)*.
- Leveraging human expertise alongside AI to optimize decision-making processes.
- The integration of blockchain and AI for improved transparency and risk mitigation *(Etemadi et al., 2021)*.

By focusing on the intersection of AI, Control Towers, and Knowledge Management, this track aims to foster discussions that will push forward the boundaries of supply chain resilience. Scholars and practitioners alike are encouraged to submit papers that provide fresh insights into how GAI and KM systems can create more adaptive, innovative, and sustainable supply chains.

Keywords

Supply chain management, resilience, AI, generative AI, control towers, knowledge-driven supply chain

Organizers

Francesca Faggioni, Roma Tre University, Italy
Marco Valerio Rossi, Roma Tre University, Italy

Special Track details published on IFKAD website ››

Guidelines

Researchers wishing to contribute are invited to submit an **EXTENDED ABSTRACT** (in editable format) of **min 500 and max 1000 words** not later than **31 JANUARY 2025**, using the submission procedure available on the website. The abstract should address theoretical background, research objective, methodology, and results in terms of expected contribution to Knowledge Management theory and practice. Authors are required to follow the guidelines for both extended abstracts as well as full papers available on IFKAD site: www.ifkad.org

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Important dates

31 January 2025	*Extended Abstract submission deadline*
24 February 2025	*Acceptance notification to authors*
20 April 2025	*Early-Bird registration cut off*
02 May 2025	*Full paper submission deadline*
31 May 2025	*Registration deadline*
2-4 July 2025	*Conference sessions*

For further information

For any information related to the event, please see the event website at www.ifkad.org or contact the conference manager at info@ifkad.org