

IFKAD
International Forum on Knowledge Asset Dynamics

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IFKAD 2027

22nd International Forum on Knowedge Asset Dynamics

University of Basilicata, Matera, Italy

The Ecology of Knowledge in the AI Era

CALL FOR EXTENDED ABSTRACTS - IFKAD 2027
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Special Track n.: 23

Evolving Quality Management in the AI Era: Integrating AI-driven Quality and Integral Ecology

Description

Within the context of integral ecology, modern enterprises face unprecedented pressure to adopt holistic sustainability paradigms that go beyond mere formal compliance. In this context, Quality Management Systems must evolve from control mechanisms into dynamic and adaptive ecosystems. In the face of these challenges, artificial intelligence should not be viewed merely as an automation technology, but as an active tool supporting decision-making and organisational processes. This Special Track explores the intersection between AI-driven Quality Management and Integral Ecology, analysing how advanced AI technologies can be deployed to govern quality system models whilst respecting human agency and dignity, as well as organisational ethics. It directly addresses how artificial and human intelligence can co-exist and co-create value without eroding human judgment, professional expertise, or social and environmental balance. This Track aims to map and examine the key dimensions of ecosystemic quality management. Specifically, it encourages contributions that investigate how algorithms, predictive analytics, and digital twins reshape traditional TQM principles and continuous improvement processes in quality systems integration. Crucially, the track also welcomes research examining the direct effects of this technology integration on human resources within organisations.

From an academic perspective, this track advances quality management, intellectual capital, and organisational literature by bridging the gap between AI governance and organisational quality management. Rather than treating quality control as a reactive or isolated function, the track explores how AI integration reshapes organisational learning systems and collective intelligence. It fosters a theoretical dialogue on how human-AI symbiosis influences quality culture and decision-making integrity.

For practitioners, executives, and quality managers, the track offers actionable pathways to transition from rigid "checklist compliance" to dynamic, ecosystem-oriented management models. Operationally, it shows how AI-driven data infrastructures can transform quality management by improving auditability and traceability of environmental, social, and economic impacts across complex supply chains. Crucially, the track provides managers with practical insights on designing human-centric re-skilling strategies, ensuring that AI augmentation reinforces rather than diminishes professional judgment, intuition, and domain expertise. Ultimately, it guides decision-makers in using AI-enhanced quality standards to design resilient, innovative, and sustainable business models that create long-term value.

Indicative Topics

- Theoretical frameworks integrating Total Quality Management (TQM), Integral Ecology, and Intellectual Capital in the AI era.
- The impact of AI algorithms, predictive analytics, and digital twins on continuous improvement and quality management systems.
- Human-AI symbiosis in quality management: safeguarding human agency, dignity, intuition, and professional judgment.
- The effects of AI-driven quality tools on human resources, workplace dynamics, job design, and organisational culture.
- Enhancing supply chain auditability and traceability in quality system processes through AI data infrastructures.
- Ethical considerations, algorithmic transparency, and governance in automated quality decision-making.

- Empirical case studies and best practices of ecosystemic, AI-enhanced quality management in manufacturing and service industries.

Keywords

Total Quality Management; Integral Ecology; Artificial Intelligence; Sustainable Supply Chains; Decision-Making Integrity; Human-Centric Intellectual Capital

Organizers

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Follow this link to see the Special Track details on IFKAD website ››

Guidelines and Requirements

Researchers wishing to contribute are invited to submit an EXTENDED ABSTRACT (in MS Word format) of min 500 and max 1000 words, not later than **22 JANUARY 2027**. All submission must be done via dedicated form on our 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 and templates available on IFKAD website: www.ifkad.org

Important Dates

22 January 2027 – Extended Abstract Submission Deadline
19 February 2027 – Acceptance Notification to Authors
16 April 2027 – Early-Bird Registration & Payment Deadline
23 April 2027 – Full Paper Submission Deadline
28 May 2027 – Regular and PhD Students Registration & Payment Deadline
12 June 2027 – Conference Program Release
28-30 June 2027 – Conference sessions *(to be considered as 3 full working days)*

Please note that all above indicated dates are **CUT-OFF** deadlines. There will not be an extention to any of these.

Further Information

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