

IFKAD
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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.: 20

Healthcare Knowledge Ecosystems: How Can Human and Artificial Intelligence Co-Create Value?

Description

Healthcare organisations can be understood as knowledge ecosystems in which clinical expertise, managerial capabilities, patient experience, organisational routines, data, technologies, and inter-organisational relationships jointly shape decision-making and service delivery. Within these ecosystems, the interaction between human and artificial intelligence (AI) is transforming how knowledge is generated, shared, interpreted, and applied, with implications for healthcare innovation and multidimensional value creation. An ecosystem perspective highlights the alignment and interdependence among actors and activities involved in developing a shared value proposition (Adner, 2017; Beirão et al., 2017). The concepts of ecosystem vitality and knowledge ecology further illuminate the conditions under which these ecosystems can evolve, remain resilient, and sustain value creation over time.

AI is increasingly becoming an integral component of healthcare organisations' cognitive architecture. From an ecology-of-knowledge perspective, it is not merely technological infrastructure or a productivity tool, but an active participant in organisational cognition alongside human minds, routines, relationships, cultural artefacts, data, and technologies. In healthcare, AI can support diagnosis, resource allocation, service design, operational planning, innovation, and strategic decision-making. Its organisational implications, however, extend beyond task automation: AI can augment human capabilities while generating tensions concerning the distribution of tasks, authority, responsibility, and control between human and artificial agents (Raisch & Krakowski, 2021; Lee & Yoon, 2021).

Against this background, the Track examines how humans and AI interact within healthcare knowledge ecosystems and how these interactions contribute to innovation and multidimensional value creation, exploring the interdependencies among healthcare professionals, patients, managers, policymakers, technology providers, AI-based agents, and other relevant actors. The notion of hybrid intelligence is especially relevant in this context, as it emphasises the potential to combine complementary human and artificial capabilities rather than treating them as competing alternatives (Dellermann et al., 2019). Healthcare provides a particularly meaningful setting for studying these dynamics. Although digital technologies can improve healthcare quality, accessibility, efficiency, and coordination, outcomes depend on their integration with organisational practices, institutional arrangements, and patterns of use (Agarwal et al., 2010). Evidence from AI-supported medical diagnosis also shows that algorithmic opacity affects how professionals engage with AI-generated recommendations and exercise judgement in high-stakes decisions (Lebovitz et al., 2022). Consequently, introducing AI is not the same as implementing it: value emerges from the interaction between technological capabilities and the organisational practices, professional judgement, and routines through which they are enacted (Van Noordt & Tangi, 2023).

The track welcomes theoretical, empirical, methodological, and practice-oriented contributions from several research fields such as innovation management, knowledge management, co-creation, operations management, organisational studies, digital transformation, and performance assessment. The aim is to understand how the interaction between human and artificial intelligence can enhance learning, collaboration, innovation, and decision-making while preserving knowledge diversity, human judgement, trust, inclusion, and accountability on which the long-term vitality of the ecosystem depends. By connecting technological transformation with organisational, relational, and ethical dimensions, the track aims to advance understanding of how healthy, resilient, and value-generating healthcare knowledge ecosystems can be designed, governed, and evaluated as well as how their vitality can be assessed beyond conventional measures of efficiency.

Indicative Topics

- Human–AI collaboration in clinical, managerial, and organisational decision-making
- AI as an actor within healthcare knowledge ecosystems
- Organisational capabilities and readiness for AI-enabled healthcare transformation
- AI-enabled innovation processes and business model innovation in healthcare
- Co-creation of AI-based healthcare solutions with professionals, patients, caregivers, and other stakeholders
- Patient and professional knowledge in the design and implementation of AI solutions
- Integration of AI into healthcare workflows, organisational routines, and care pathways
- Human-centred, responsible, trustworthy, and explainable AI in healthcare
- Trust, professional autonomy, accountability, and decision rights in human–AI systems
- Leadership, organisational culture, competencies, and change management for AI adoption
- AI applications in healthcare operations, capacity planning, logistics, procurement, and resource allocation
- AI-enabled learning and knowledge sharing within and across healthcare organisations
- Inter-organisational collaboration and innovation ecosystems involving healthcare providers, companies, universities, institutions, and patients
- Governance of data, knowledge, and AI across organisational and institutional boundaries
- AI and the transformation of healthcare professional roles and identities
- Risks of cognitive homogenisation, knowledge loss, bias, and overreliance on computational knowledge
- Integration of explicit, tacit, experiential, and patient-generated knowledge
- Assessment of the clinical, organisational, economic, social, ethical, and environmental impacts of AI
- AI-enabled value creation and value-based healthcare
- Digital inclusion, accessibility, equity, and unintended consequences of AI adoption
- Sustainable and resilient healthcare knowledge ecosystems
- Methods and frameworks for evaluating human–AI knowledge ecosystems
- Comparative case studies and cross-country analyses of AI-enabled healthcare transformation
- Policy and regulatory implications for the governance of AI-enabled healthcare systems

Keywords

Human–AI collaboration; healthcare innovation; knowledge ecosystems; co-creation; organisational transformation; healthcare operations; multidimensional performance; hybrid intelligence

Organizers

Federica Asperti – LIUC – Carlo Cattaneo University, Italy
Sara Vannelli – University of Florence, Italy
Rosalinda Iachetta – University of Palermo, Italy
Maria Pinelli – Politecnico of Milan, Italy
Davide De Vita – Polytechnic University of Bari, Italy

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**