Editorial

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Biographical notes: Inès Saad is a Professor of Information Systems at Amiens Business School and a researcher at the Modelling Information and Systems (MIS) Laboratory, University of Picardie Jules Verne, France. Her research focuses on knowledge management, decision support systems, information systems, and group decision-making. She has published in international journals and conferences. She is the Co-Founder and General Chair of the International Conference on Information and Knowledge Systems (ICIKS). Since 2024, she holds the position of Chair of the IEEE Systems, Man, and Cybernetics Society (IEEE SMC) France Chapter.

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LAMSADE Laboratory at Paris-Dauphine University. She created the SIGECAD research group on information systems, knowledge management, and decision aid in the LAMSADE Laboratory. She has published many papers in international conferences and journals and several books on information systems. She has also served as co-editor of several special issues and proceedings.

Salem Chakhar is a senior researcher in preference learning and data analytics within the Portsmouth Business School, Faculty of Business and Law, University of Portsmouth, Portsmouth, UK, since 2013. He was the Local Organisation Chair of the International Conference on Information and Knowledge Systems (ICIKS 2023) held at the University of Portsmouth in the United Kingdom. He is also an associate editor of the *Spectrum of Engineering and Management Sciences* journal. His research has been published in well-established and highly ranked international peer-reviewed journals such as the *European Journal of Operational Research*, *Journal of the Association for Information Science and Technology*, *Decision Support Systems*, *Risk Analysis*, and *Computers in Human Behavior*.

Faiez Gargouri is a Computer Science Professor at the Higher Institute of Computer Science and Multimedia at the University of Sfax, Tunisia. He is the Vice President of the University of Sfax, Tunisia, the President of its quality committee, and the coordinator of its PAQ-DGSU project. His research interests focus on different fields of information systems, such as design, quality measurement, verification, data warehousing, multimedia, knowledge management, and ontology. He has published more than 350 papers in journals and conferences and more than ten books. He is one of the founding members of the JFO conference (French Workshops on Ontologies) and the ASD conference (Conference on Decisional Systems).

Recent advances in artificial intelligence (AI), including machine learning, natural language processing, and large language models, are significantly reshaping the field of knowledge management (KM). These developments are transforming how knowledge is created, formalised, shared, and applied within organisations. In contexts characterised by increasing data availability and ongoing digital transformation, the integration of AI into KM raises important technological and organisational challenges, particularly concerning the role and persistence of tacit knowledge.

The aim of this special issue is to examine the interaction between AI technologies and knowledge processes from both organisational and technical perspectives. It explores how AI-enabled systems contribute to knowledge creation, decision-making, process optimisation, and organisational learning, while recognising the contextual and tacit dimensions that continue to shape knowledge dynamics.

This special issue presents a selection of papers from the 6th International Conference on Information and Knowledge Systems (ICIKS 2023), held in Portsmouth, UK, 22–23 June 2023, as well as from submissions received through a post-conference call for papers. Five papers were selected following a double-blind peer-review process.

The contributions address complementary aspects of AI-enabled Knowledge Management. They include a conceptual analysis of the evolving relationship between AI and KM; methodological advances in ontology development using large language models; predictive modelling approaches for business process monitoring; an analytics-driven method supporting knowledge processes in human resource

management; and an empirical study of tacit knowledge in synchronous online higher education.

Together, these contributions illustrate the multidimensional impact of AI on knowledge management, spanning conceptual, technological, operational, and human perspectives. This special issue advances ongoing research on the responsible and effective integration of artificial intelligence within complex socio-technical systems.