

ISKO-Maghreb'2025:

International Symposium of ISKO-Maghreb Society on: Digital Sciences: Impacts and Challenges on Knowledge Organization

Tunis, Tunisia : November 6-7, 2025

Conference website	https://project.inria.fr/iskomaghreb2025/
Submission link	https://easychair.org/conferences/?conf=iskomaghreb2025
In OCTA event	https://project.inria.fr/octa2025/

Call for Papers ISKO-Maghreb ' 2025: 10th. International Symposium.

Digital Sciences: Impacts and Challenges on Knowledge Organization

[in OCTA'2025 Multi-Conference Event](#)

Important Dates	Deadline
Paper Submission Deadline	August 7th, 2025
Notification of Acceptance	September 7th, 2025
Final Paper & Camera-Ready Submission	October 7th, 2025
Author Registration Deadline	October 15th, 2025
ISKO-Maghreb'2025 in OCTA'2025 Dates	November 6-7, 2025
Best Paper Awards Ceremony	November 7th, 2025

"The world is changing" as Michel Serres states in "Petite Poucette" (March 2012) and in his speech at the French Academy (November 2017). He argues: "We must draw the consequences of this transformation of space that affects humanity with the emergence of new information and communication technologies – particularly by striving to establish a new balance between the material and the intangible."

Throughout history, two major inventions have profoundly transformed knowledge organization (KO), bridging culture and knowledge transmission: writing (circa the fourth millennium BCE) and printing (introduced by Johannes Gutenberg in the 15th century). Today, digital technology represents a third major revolution, significantly impacting knowledge organization systems (KOS), knowledge transmission, education, pedagogy, society, and the global economy, now increasingly oriented toward the intangible.

At the dawn of the 21st century, we are witnessing the rise of a new discipline known as Digital Sciences, encompassing both the hardware and software dimensions of information and communication technologies. These digital sciences are redefining how knowledge is structured, shared, and accessed, while reshaping social interactions and human relationships with knowledge. A key development in this evolution is the emergence of Generative Artificial Intelligence (Generative AI), which is transforming knowledge creation, classification, retrieval, and governance.

As digital sciences and AI-driven knowledge systems evolve, society must adapt and develop new skills to navigate these transformations. Among the major shifts:

- The rise of Generative AI in knowledge organization, affecting both automatic knowledge production and interactive systems for learning and discovery.
- The transformation of social networks and digital platforms into intelligent knowledge ecosystems capable of facilitating collective intelligence and automated knowledge curation.
- The challenges posed by AI-driven misinformation, such as deepfakes, synthetic content, and biases in knowledge representation.
- The ethical implications of AI governance in scholarly and professional knowledge organization, particularly concerning transparency, bias mitigation, and intellectual property rights.

These changes profoundly impact education, research methodologies, knowledge structuring, and decision-making, reshaping how academics, professionals, and institutions engage with knowledge organization systems (KOS).

Submission Guidelines

All papers must be original and not simultaneously submitted to another journal or conference. The following paper categories are welcome:

- Manuscripts must follow the IEEE template guidelines, including figures, tables, and references.
- The paper must be prepared by using the template in MS Word or LaTeX as PDF files through EasyChair System:
<https://easychair.org/conferences/?conf=iskomaghreb2025>
- IEEE – Manuscript Templates for Conference Proceedings :
 - [A4](#) (DOC, 30 KB) **Updated 2024**
 - [LaTeX Template Instructions](#) (PDF, 63 KB) **[Be sure to use the template's conference mode.]**
 - [Template](#) (ZIP, 700 KB) **Updated 2024**
 - [LaTeX Bibliography Files](#) (ZIP, 309 KB)

Paper Rating

- The **Scientific Committee** will assess the relevance of each proposal and will propose appropriate changes.
- The **acceptance criteria** are: originality of the contribution, importance to the community and impact on future scientific work, significance of results and quality of presentation.
- **Anti-plagiarism Policy:** As part of the anti-plagiarism policy followed by **OCTA** multi-conference Int. Organization, the papers will be subject to anti-plagiarism software Compilatio (<https://www.compilatio.net/>).

List of Topics

This edition focuses on the transformative impact of Artificial Intelligence (AI) and Generative AI on Knowledge Organization (KO), reshaping knowledge structuring, retrieval, and governance while redefining the role of human expertise in AI-augmented KO systems. **SKO-Maghreb'2025** invites **submissions** covering, but not limited to, the following **key topics** :

1. Knowledge Organization in the Context of Digital Humanities

- A. Digital dematerialization of documents and its impact on knowledge.
- B. Communication and media convergence: knowledge and the knowledge industry.
- C. Digital heritage: corpus, documents, and digital footprints.

2. Knowledge Organization in the Context of ICT and Digital Sciences

- A. Communication networks and electronic documents.
- B. e-Business and digital publishing platforms.
- C. Digital economy: Web X.0, SHS X.0, and emerging concepts and metadata.

3. Collective Intelligence and Collaborative Knowledge Organization Systems (KOS)

- A. AI-powered Collective Intelligence and the Knowledge Economy.
- B. The role of AI in Knowledge Organization (KO) and automated Knowledge Curation.
- C. The transformation of social networks into AI-driven Knowledge platforms.
- D. AI-assisted structured Knowledge Databases: automated communication, production, and coordination.

4. Digital Sciences and Cultural Heritage

- A. Digital Memory, Archives, and Knowledge Organization (KO).
- B. AI-assisted heritage preservation: digitization, restoration, and virtual reconstruction.
- C. The role of AI in digital humanities and cultural interpretation.

5. AI and Generative AI in Knowledge Organization Systems (KOS)

- A. AI-driven knowledge modeling and semantic analysis.
- B. The use of Large Language Models (LLMs) for knowledge structuring and retrieval.
- C. AI-assisted taxonomy creation, ontology alignment, and metadata generation.
- D. The ethical and methodological implications of AI in scholarly knowledge systems.

6. AI-Assisted Virtual Libraries and Knowledge Organization

- A. AI-powered learning platforms and their impact on knowledge dissemination.
- B. Smart virtual libraries and automated content mapping.
- C. AI-generated multimedia resources for teaching and digital humanities research.

7. AI-Driven Strategic Intelligence and Knowledge Organization

- A. AI in business intelligence: predictive analytics, decision support, and automation.
- B. e-Watch and AI-driven knowledge monitoring: real-time source analysis.
- C. Data Science and AI-powered strategic development in knowledge-based industries.

8. Knowledge Representation and the Semantic Web

- A. AI-enhanced models for knowledge representation.
- B. The evolution of knowledge towards AI-powered Semantic Web systems.
- C. The role of digital humanities and AI-driven knowledge graphs.

9. AI for Search Engines and Knowledge Discovery

- A. AI-based classification and categorization in Data / Digital Sciences analysis.
- B. Visual mining and AI-driven knowledge emergence.
- C. AI-assisted extraction, synthesis, and visualization in Digital Sciences.

10. Mathematical Models in Knowledge Organization Visualization

- A. AI-powered numerical methods and scientific computing.
- B. Stochastic models and AI applications in finance, economy, and society.
- C. AI-based visualization of complex data for decision-making.

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Publication

ISKO-Maghreb'2025 proceedings will be published in ... (Eds.) & IEEE Xplore.

Venue

Venue in Tunis (Tunisia) :

- **Location:** in HIDE Tunis. (MECAM Center)
- **Address :** Higher Institute of Digital Engineering (HIDE) - Centre Merian pour les études avancées au Maghreb (MECAM) 27, rue Florian, Borj Zouara | 1029 Tunis.
- **MECAM Center** (Merian Centre for Advanced Studies in the Maghreb) :

10 minutes walk from the nearest light rail station: Bab Saadoun,

20 minutes walk from the Medina, – 8 minutes by car from Habib Bourguiba Avenue,

15 minutes by car from Tunis Carthage airport

Contact

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