



## International Conference on Data Mining and Information Security (ICDMIS 2025)

*Organized by*  
**Eminent College of Management and Technology (ECMT)**

*Technically Sponsored by:*  
**Scientific Innovation Research Group (SIRG), Egypt**  
**Scientific Research Group in Egypt (SRGE), Egypt**  
**CI2S lab, Argentina**

**Date: 7<sup>th</sup> – 8<sup>th</sup> October, 2025 (Hybrid Mode)**

**\*\*\*\*\* CALL FOR PAPERS \*\*\*\*\***

### **SPECIAL SESSION**

**‘Emerging Trends in AI-Driven Knowledge Management and Intelligent Telecommunication Systems’**

#### **SESSION ORGANIZERS:**



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#### **SESSION DESCRIPTION:**

The convergence of Artificial Intelligence (AI), Knowledge Management (KM), and Telecommunication Engineering has unlocked significant opportunities to design systems capable of autonomous decision-making, advanced data processing, and seamless communication. This special session focuses on exploring cutting-edge AI-driven methodologies and their applications in enhancing knowledge management frameworks and building intelligent telecommunication systems. The session aims to address the challenges of data quality, scalability, and robustness while showcasing innovative research contributions that bridge the gap between theoretical advancements and real-world applications.

This session will serve as a platform to discuss emerging trends, novel approaches, and future directions in AI, Big Data, and

intelligent control systems as they apply to smart industries, healthcare, IoT, autonomous systems, and telecommunication networks.

### RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- AI and Machine Learning for Knowledge Management Systems
- Big Data Analytics in Telecommunication and Intelligent Control Systems
- Quantum Computing in AI-Driven Knowledge and Communication Frameworks
- Autonomous Systems for Smart Industries and Telecommunication Networks
- Natural Language Processing (NLP) in Knowledge Retrieval and Decision Support
- Intelligent System Integration for Seamless Communication and Data Management
- Edge and Cloud Computing in AI-Powered Telecommunication Systems
- Optimization Algorithms for Knowledge Discovery and Telecommunication Applications
- AI-Enhanced IoT Networks and Smart Sensors in Telecommunication
- Real-World Applications of AI in Healthcare and Smart City Networks

### PUBLICATION AND SUBMISSION PROCEDURE

The conference aims at carrying out double-blind review process. The papers submitted by the authors will be assessed based on their technical suitability, the scope of work, plagiarism, novelty, clarity, completeness, relevance, significance, and research contribution. The conference proceedings will be published in AIP Web of Science, Scopus series.

**NOTE: While submitting the paper in this special session, please specify “*Emerging Trends in AI-Driven Knowledge Management and Intelligent Telecommunication Systems*” at the top (above paper title) of the first page of your paper.**

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