

First International Forum (on premise and online) \_\_\_\_ Information systems and Decision Support Systems: Applications, Practices, and Perspectives \_\_\_\_ 2025



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Research



Mohamed of Souk Ahras

Faculty of Economics, Business, and Management

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# Information systems and Decision Support Systems: Applications,

**Honorary President: Prof. Dr. Moussa Noura, Rector of  
Mohamed Cherif Messaadia University – Souk Ahras**

**Forum General Coordinator: Prof. Ben Salim Mohsen, Dean  
of the Faculty of Economics, Business, and Management**

**Forum President: Dr. Fathi Daghrir**

## **Preamble of the forum:**

From the earliest societies to today's complex organizations, information has always been a fundamental asset. Regardless of size, purpose, or type, every entity relies on information to function effectively. The performance of organizations hinges on how well they acquire, process, analyze, and utilize information to support decision-making. Because information forms the backbone of these decisions, its value increases with its relevance and usefulness in the decision-making process.

Decision-making remains one of the most challenging tasks for managers. Today, it is undergoing remarkable advancements-not only in the quality and innovation of decision support programs but also in their practical applications and impact.

Modern management demands speed, accuracy, and real-time insights into business operations, all enabled by advanced information technology. This calls for a new approach to developing Management Information Systems (MIS). Organizational intelligence encompasses a wide range of activities: gathering data from diverse sources, identifying emerging social patterns, analyzing organizational structures and participants, and characterizing their functions. In some cases, it may involve covert methods to understand internal operations and influence outcomes.

Information Technology (IT) optimizes scarce resources by providing intelligent support for decision-making and facilitating coordinated efforts without unnecessary delays. The complexity of decision-making has increased due to competitive pressures, limited resources, time constraints, and the imperative to meet goals efficiently.

Information systems are now indispensable in modern decision-making. They offer significant advantages in speed, accuracy, collaboration, and trend forecasting. Their capacity to process and analyze vast amounts of data makes them strategic tools for organizations striving to stay competitive and agile in a rapidly evolving environment.

Information systems consist of interconnected components-hardware, software, data, and people-that collectively manage, process, and disseminate information within organizations. The seamless integration of these components is essential to ensure the performance, security, and reliability of decision-making processes in today's enterprises.

The business landscape is being reshaped by new technologies that revolutionize management and organizational practices. This dynamic environment makes the MIS field one of the most exciting areas of study in business schools, driven by continuous technological, managerial, and process innovations.

Recent breakthroughs such as cloud computing, the rise of mobile digital platforms (smartphones, tablets, ultrabooks), and the strategic use of social networks by managers have transformed traditional business models. These innovations empower entrepreneurs and established firms alike to develop new products and services, create innovative business models, and redefine everyday business operations. While some traditional industries are disrupted or even disappear, new businesses and opportunities continue to emerge.

**Research problem :** The aims of the forum is to answer this questions

1. How are information systems transforming business, and what is their relationship to globalization?
2. Why are information systems so essential for running and managing a business today?
3. What exactly is an information system? How does it work? What are its management, organization, and technology components?
4. What are complementary assets? Why are complementary assets essential for ensuring that information systems provide genuine value for an organization?

**Forum topics :**

### **1. Key Components of Information Systems**

- Data, Information, and Knowledge
- Definition of Information Systems (IS)

- Importance of IS in Modern Decision-Making
- Technological Infrastructure (Databases, Networks, Hardware, Software)
- Strategic Importance of Information Systems for Effective Decision-Making
- reflection on adapting information systems to specific business needs

## **2. Decision Support Systems (DSS)**

- Definition and Objectives of DSS
- decision support systems to data mining.
- Types of DSS: Executive Information Systems, Dashboards, OLAP, Expert Systems

## **3. Data Collection and Processing**

- Data Collection Methods
- Data Analysis Techniques for Decision-Making
- Importance of Data Quality
- Database Management, explaining the importance of database systems in business.
- managers' roles and uses of databases.
- Querying databases and building reports.

## **4. Modeling and decision analysis**

- importance of using analytical tools to make decisions
- Predictive and descriptive models
- Simulation and modeling
- Examples of tools and software used in decision analysis

## **5. Business Decision :**

- from Expert systems to computers advanced decisions.
- Artificial Intelligence and Machine Learning in Decision Support Tools
- Big Data and its Impact on Strategic Decisions

- how information systems are used to support the functional business areas to help gain a competitive advantage.
- how IT helps entrepreneurs create new businesses.

## **6. Practical Cases**

- Case studies demonstrating the application of information systems and decision support tools in different sectors (finance, healthcare, marketing, etc.)
- Future Trends and Innovation in Information Systems and Decision Support Tools

### **Submission Guidelines :**

- The submitted research must be original and not previously submitted to any other organization.
- The research must follow the recognized scientific and methodological principles.
- The research must be written in arabic, french or english .
- The page must be (A4) with 3 cm margins on the right and 2 cm on the other three sides.
- Font: For Arabic, the text must be written in Traditional Arabic, regular, size 14. Main headings must be written in the same font and in size 16 bold. Subheadings must be written in size 14 bold.
- Font: For foreign languages, the text must be written in Times New Roman, regular, size 12. Main headings must be written in the same font and in size 14 bold. Subheadings must be written in size 12 bold.
- Page numbering must be consecutive, centered on the last line of the page.
- The research must not exceed 20 pages.

Important Dates:

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- The deadline for receiving full papers is September 25, 2025.
- The deadline for responding to accepted papers is October 15, 2025.
- Forum date: November 27, 2025.

papers should be sent to the following email : [siad.seminaire.2025@gmail.com](mailto:siad.seminaire.2025@gmail.com)