

Towards Intelligent ERPs: Transforming Decision-Making through Information Retrieval

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Abstract:

Integrating information retrieval capabilities into ERP systems represents a strategic advancement for optimizing corporate decision-making. Traditionally focused on managing transactional processes, ERPs (Enterprise Resource Planning) often struggle to deliver real-time analytical and contextual data. This article explores how adding advanced technologies, such as natural language processing (NLP) and machine learning, transforms ERPs into more agile and decision-supportive tools. This research is based on a literature review aimed at understanding the impacts and challenges of this integration. The results show that such integration enhances productivity, reduces data management costs, and enables faster and more informed decision-making. However, challenges remain, notably in areas such as data security, implementation costs, and resistance to change.

In conclusion, ERPs enhanced with information retrieval capabilities offer companies increased competitiveness in a rapidly evolving digital market. These advanced systems are set to play a key role in effective data management, meeting the growing demands of a dynamic and complex decision-making environment.

Keywords:

Enterprise Resource Planning, Information Retrieval, Decision-Making, Digital Transformation, Machine Learning