Mercatura Lumina Journal of Management, Entrepreneurship, and Tourism
Vol 1 No 2 May 2026, Hal 30-38
ISSN: 3125-1250 (Print) ISSN: 3125-0939 (Electronic)
Open Access: https://researchfrontiers.id/mercaturalumina

The Role of Digital Accounting Information Systems in Supporting Business Decision-Making

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Article Info :
Received:
21-04-2026
Revised:
02-05-2026
Accepted:
10-05-2026

Abstract

The rapid advancement of information technology has accelerated digital transformation across business functions, including accounting. This study aims to examine the role of Digital Accounting Information Systems (DAIS) in providing high-quality information and supporting business decision-making processes. The research employed a qualitative non-empirical approach using a literature review method. Secondary data were collected from scholarly journals, books, and academic publications related to digital accounting systems, information quality, and managerial decision-making. Data were analyzed through qualitative content analysis and thematic synthesis to identify recurring patterns and conceptual relationships within the literature. The findings indicate that DAIS enhances information quality by improving accuracy, timeliness, relevance, integration, and accessibility of financial information. These capabilities support operational, tactical, and strategic decision-making while contributing to organizational efficiency, performance evaluation, internal control, and strategic flexibility. The review also reveals several implementation challenges, including investment costs, technological readiness, human resource competencies, and cybersecurity concerns. The study concludes that DAIS functions not only as a financial reporting tool but also as a strategic organizational resource that strengthens decision quality and supports sustainable business performance in the digital era.

Keywords: *Business Decision-Making, Digital Accounting Information Systems, Digital Transformation, Information Quality, Strategic Management.*

INTRODUCTION

The rapid advancement of information technology has fundamentally reshaped contemporary business environments, transforming the way organizations generate, process, and utilize financial information for strategic purposes. Digital transformation has encouraged firms across industries to adopt more sophisticated and integrated accounting infrastructures, particularly through the implementation of Digital Accounting Information Systems (DAIS), which are increasingly viewed as critical organizational resources rather than merely administrative tools (Halimah et al., 2023). Recent developments in digital accounting demonstrate a transition from conventional transaction-recording functions toward intelligent information ecosystems capable of supporting managerial analysis, forecasting, and strategic planning processes (Prasetianingrum & Sonjaya, 2024). The growing integration of cloud computing, automation, artificial intelligence, and data analytics into accounting systems has significantly enhanced the speed, accessibility, and reliability of financial information available to decision-makers (Novida, 2025). Organizations operating in highly dynamic and uncertain markets increasingly rely on digitally enabled accounting platforms to maintain competitiveness, improve responsiveness, and strengthen organizational agility. In this context, the role of digital accounting information systems has become inseparable from broader discussions concerning managerial effectiveness and business sustainability.

Despite these technological advancements, many organizations continue to face substantial challenges in managing financial information effectively, particularly regarding reporting delays, fragmented databases, manual recording errors, and inadequate coordination across organizational units. Existing studies consistently indicate that digital accounting systems improve operational efficiency and reporting quality by providing timely, accurate, and integrated financial information that supports managerial activities (Maulana & Kustiwi, 2024). Research conducted in both private and public sector contexts further reveals that digital accounting infrastructures facilitate more transparent information flows and strengthen organizational accountability mechanisms (Alsharari & Ikem, 2023). Empirical evidence also suggests that digital accounting systems contribute positively to corporate governance quality by enhancing information integrity and reducing information asymmetry between stakeholders (Al-Hattami et al., 2024). Beyond technical improvements, digital information management has increasingly become a strategic capability because organizations require continuous access to high-quality information for planning, monitoring, and performance evaluation. The effectiveness of managerial decision-making is closely associated with the quality of information generated through accounting systems and the behavioral characteristics of managers who utilize such information in strategic contexts (Gardi & Darmawan, 2022).

The literature has increasingly emphasized that the contribution of digital accounting systems extends beyond financial reporting toward supporting managerial and strategic decision-making processes. Studies in the banking sector demonstrate that digital accounting systems positively influence decision quality through improved information processing capabilities and enhanced analytical functions (Al-Okaily et al., 2023). Emerging technologies embedded within accounting information systems have also been found to improve strategic flexibility by enabling organizations to react more effectively to environmental changes and market uncertainty (Yoshikuni et al., 2023). Real-time information accessibility, cloud-based collaboration, and digital information management capabilities allow organizations to identify opportunities and risks more rapidly while reducing information bottlenecks that traditionally hinder organizational responsiveness (Iryani et al., 2025). Accounting information has become increasingly valuable as a strategic asset because managerial performance is strongly influenced by the availability of reliable information under conditions of environmental uncertainty (Hasibuan et al., 2023). Recent studies similarly highlight that accounting, analytical, and financial information support systems are becoming essential components in managerial decision frameworks designed to improve organizational effectiveness and long-term performance (Nuzhna et al., 2024).

Although previous studies generally acknowledge the positive effects of digital accounting systems, important conceptual and empirical limitations remain insufficiently addressed within the literature. A considerable proportion of existing research primarily focuses on technical efficiency, financial reporting quality, or system implementation outcomes while providing limited explanation regarding the specific mechanisms through which digital accounting information systems influence business decision-making processes (Lestari et al., 2024). Several studies investigate strategic decision-making from the perspective of management accounting information systems but often treat digitalization as a contextual factor rather than as a central analytical construct (Siagian et al., 2025). Research examining digital enterprises highlights the importance of accounting information in managerial decisions; however, findings frequently remain context-specific and lack broader theoretical integration regarding decision quality and organizational performance (Susanti et al., 2025). Existing evidence concerning sustainable decision-making also suggests that the effectiveness of digital accounting systems may depend on organizational capabilities, technological maturity, and managerial interpretation processes, indicating the presence of unresolved contingencies within the current body of knowledge (Almgrashi, 2025). These inconsistencies reveal a need for a more comprehensive understanding of how digital accounting systems function as strategic enablers of business decision-making across diverse organizational settings.

The unresolved nature of these issues carries significant scientific and practical implications because organizations increasingly operate in environments characterized by rapid technological disruption, market volatility, and growing regulatory complexity. The integration of digital accounting systems not only improves operational efficiency but also strengthens risk management and compliance capabilities through automated monitoring and anomaly detection mechanisms that support proactive managerial actions (Halimah et al., 2023). As organizations expand into increasingly interconnected global markets, the ability to access accurate and timely information becomes a prerequisite for maintaining resilience and competitive advantage in complex business ecosystems (Siagian et al., 2025). Digital accounting systems have also demonstrated substantial value in supporting business development initiatives, particularly among organizations seeking to optimize resource allocation, enhance financial performance, and improve strategic adaptability (Rosdiyati et al., 2024). Research focusing on management accounting information systems further indicates that digitally integrated financial information can substantially improve organizational performance when effectively incorporated into managerial decision processes (Irman Ramdhan Fauzi et al., 2024). The continuing expansion of digital business models reinforces the necessity of examining digital accounting information systems not solely as technological infrastructures but as critical determinants of organizational decision quality and strategic success (Nurtang & Masyuri, 2026).

Positioned within this scholarly landscape, the present study seeks to advance current understanding by examining the role of Digital Accounting Information Systems as strategic instruments that support business decision-making rather than limiting their function to financial recording and reporting activities. The study aims to explore how digitally integrated accounting information contributes to the availability of high-quality information and influences managerial decision effectiveness in contemporary business environments. By emphasizing the strategic value of accounting information systems within the broader context of digital transformation, this research offers a more comprehensive conceptualization of the relationship between accounting digitalization and organizational decision-making. Methodologically, the study contributes by synthesizing contemporary perspectives on digital accounting systems and decision processes into an integrated analytical framework capable of explaining the mechanisms through which information quality supports managerial actions. The findings are expected to enrich the theoretical discourse on accounting information systems while providing practical insights for organizations seeking to strengthen decision quality through digital transformation initiatives.

RESEARCH METHODS

This study employs a non-empirical qualitative approach using a literature review method to examine the role of Digital Accounting Information Systems (DAIS) in supporting business decision-making. The study is grounded in a conceptual and theoretical analysis of existing scholarly works related to digital accounting, accounting information systems, information quality, managerial decision-making, and digital transformation in business organizations. The literature selection process was conducted systematically through the identification, screening, and evaluation of relevant academic sources, including peer-reviewed journal articles, books, conference proceedings, and reputable institutional publications. Priority was given to recent studies published in recognized national and international journals to ensure the relevance and contemporary nature of the analyzed evidence. The selected literature was then categorized according to key themes, including technological integration, information quality, organizational performance, strategic decision-making, and digital business environments.

The analytical framework of this study is based on qualitative content analysis and thematic synthesis, which enable the integration of diverse theoretical perspectives and empirical findings into a coherent conceptual understanding. The analysis was conducted through several stages, including data reduction, thematic classification, comparative evaluation of previous findings, and interpretative synthesis of emerging patterns within the literature. Particular attention was given to identifying relationships between digital accounting system capabilities, information quality attributes, and decision-making effectiveness. The interpretative process focused on examining convergences, divergences, and gaps within the existing body of knowledge in order to develop a comprehensive explanation of how Digital Accounting Information Systems contribute to managerial and strategic business decisions. Through this approach, the study provides a structured conceptual framework that enriches theoretical discussions and offers insights for future research in the fields of management, entrepreneurship, and tourism.

RESULTS AND DISCUSSION

Digital Accounting Information Systems and the Provision of High-Quality Information

The literature synthesis indicates that the evolution of Digital Accounting Information Systems (DAIS) has transformed the role of accounting from a conventional recording function into an integrated information management mechanism capable of supporting managerial activities in real time. Contemporary organizations increasingly depend on digital infrastructures to process large volumes of financial data generated from diverse operational activities. This transformation reflects a broader shift in organizational priorities, where information quality has become a strategic resource for maintaining competitiveness and improving managerial responsiveness. The integration of information technology into accounting processes enables firms to generate more reliable, accessible, and timely information than traditional accounting systems. The modernization of accounting practices through digital technologies has consequently altered the way organizations create value from financial information and utilize it as a foundation for decision-making processes (Halimah et al., 2023; Prasetianingrum & Sonjaya, 2024).

One of the most significant contributions of DAIS lies in its ability to enhance information accuracy. Manual accounting procedures are often associated with data duplication, recording inconsistencies, and human errors that may reduce the reliability of financial reports. Digital systems minimize these limitations through automated transaction processing and standardized reporting mechanisms. The literature consistently demonstrates that automation improves the integrity of financial information by reducing opportunities for data manipulation and computational mistakes. Accurate information is particularly valuable because managerial decisions concerning budgeting, investment, and resource allocation require dependable financial evidence. In this regard, information quality functions not merely as an operational output but as a strategic input that influences organizational performance and managerial effectiveness (Novida, 2025).

Another critical dimension identified in the literature concerns timeliness. The value of information is highly dependent on its availability at the moment decisions need to be made. Organizations operating in dynamic business environments face continuous changes in customer preferences, market conditions, and competitive pressures, creating a demand for immediate access to financial information. Digital accounting systems facilitate real-time reporting capabilities that allow managers to monitor organizational performance without significant delays. This capability improves organizational responsiveness and supports more agile managerial actions when unexpected challenges emerge. Studies examining digital information management similarly emphasize that rapid information retrieval has become a key determinant of organizational effectiveness in the digital era (Iryani et al., 2025).

Beyond accuracy and timeliness, the reviewed literature highlights several additional attributes that determine the effectiveness of accounting information in organizational contexts. Information relevance, accessibility, and data integration emerge as recurring themes that shape the usefulness of financial information for managerial purposes. The comparative synthesis of these dimensions is presented in Table 1.

Table 1. Dimensions of Information Quality Generated by Digital Accounting Information Systems

Information Quality Dimension	Contribution of DAIS	Managerial Implication
Accuracy	Automated processing reduces recording errors	More reliable decision-making
Timeliness	Real-time data availability	Faster managerial response
Relevance	Customized and needs-based reporting	Improved planning and evaluation
Integration	Unified database across departments	Better organizational coordination
Accessibility	Easier retrieval of historical information	More efficient performance assessment

As shown in Table 1, the contribution of DAIS is not limited to improving a single attribute of information quality. Instead, digital accounting systems create a multidimensional information environment that supports various managerial functions simultaneously. The interdependence among these dimensions suggests that information quality should be understood as a holistic construct rather than a collection of isolated characteristics.

The importance of information integration has received considerable attention in recent accounting literature. Organizations frequently encounter inefficiencies when different departments maintain separate databases that generate inconsistent information. Digital accounting systems address this issue by integrating financial and operational data within a centralized platform, enabling managers to access a unified source of information. Such integration reduces information asymmetry among organizational units and strengthens coordination across departments. Research conducted in the public sector demonstrates that the interaction between accounting systems and information technology contributes significantly to improving information consistency and organizational transparency (Alsharari & Ikem, 2023). Integrated information environments also support cross-functional collaboration because stakeholders can rely on the same data when evaluating organizational performance and strategic priorities.

A further analytical observation emerging from the literature concerns the relationship between information quality and organizational learning. The availability of accessible and systematically organized historical data enables managers to identify performance patterns, evaluate previous decisions, and formulate evidence-based strategies for future growth. Digital accounting systems therefore serve not only as repositories of financial information but also as organizational knowledge platforms that facilitate continuous improvement. This perspective broadens the conventional understanding of accounting systems by positioning them as strategic resources that contribute to organizational intelligence. The findings of this review suggest that the strategic value of DAIS originates from its capacity to generate information that is accurate, timely, relevant, integrated, and accessible, creating the informational foundation required for effective managerial and business decision-making.

The Role of Digital Accounting Information Systems in Business Decision-Making

The literature consistently identifies decision-making support as one of the most significant strategic functions of Digital Accounting Information Systems (DAIS). While traditional accounting systems primarily focused on recording and reporting financial transactions, contemporary digital systems provide analytical capabilities that enable managers to evaluate organizational conditions and formulate appropriate responses to emerging challenges. Decision quality is strongly influenced by the availability of accurate, relevant, and timely information because managerial actions often involve uncertainty regarding future outcomes. The reviewed studies indicate that digital accounting systems contribute to reducing information gaps by providing comprehensive financial insights that support both routine and strategic decisions. In this context, the effectiveness of managerial decision-making becomes increasingly dependent on the organization's ability to transform financial data into actionable knowledge (Al-Okaily et al., 2023).

At the operational level, DAIS assists managers in monitoring daily business activities, controlling costs, managing cash flows, and evaluating organizational efficiency. Operational decisions frequently require immediate responses, making real-time information availability a critical organizational requirement. Digital accounting systems facilitate continuous monitoring of financial transactions, allowing managers to detect deviations from planned targets and implement corrective measures before problems escalate. This capability strengthens organizational control mechanisms and improves the efficiency of resource utilization. The literature further suggests that organizations equipped with integrated accounting information systems demonstrate greater responsiveness to operational challenges because decision-makers have access to updated and reliable information when required (Lestari et al., 2024).

The role of DAIS extends beyond operational activities into tactical decision-making processes, where managers must allocate resources, evaluate departmental performance, and formulate medium-term organizational plans. Tactical decisions generally require a broader analytical perspective because they involve multiple organizational functions and competing priorities. Accounting information serves as a critical input in these situations by enabling managers to compare alternatives based on financial performance indicators and operational outcomes. The effectiveness of such decisions depends not only on information availability but also on managerial capability in interpreting and utilizing accounting information. Previous studies emphasize that managerial behavior remains an important determinant of decision quality, even when sophisticated accounting systems are available (Gardi & Darmawan, 2022). The interaction between technological capability and managerial competence therefore becomes a crucial factor influencing organizational outcomes.

The reviewed literature also highlights the importance of DAIS in supporting strategic decision-making, particularly in environments characterized by uncertainty and rapid market change. Strategic decisions often involve long-term investments, business expansion initiatives, market positioning strategies, and organizational transformation programs. These decisions require access to historical trends, predictive analyses, and comprehensive performance evaluations that cannot be generated effectively through conventional accounting approaches. To illustrate the contribution of DAIS across different managerial levels, Table 2 presents the primary decision domains supported by digital accounting systems and their expected organizational outcomes.

Table 2. Contributions of Digital Accounting Information Systems Across Decision Levels

Decision Level	DAIS Function	Expected Outcome
Operational	Cost control, transaction monitoring, cash flow management	Improved operational efficiency
Tactical	Budgeting, performance evaluation, resource allocation	Better managerial effectiveness
Strategic	Trend analysis, forecasting, business planning	Sustainable competitive advantage
Risk Management	Compliance monitoring and anomaly detection	Reduced organizational risk

As presented in Table 2, the strategic value of DAIS increases as decision complexity expands. The system functions not only as a source of financial information but also as an analytical infrastructure that supports organizational planning, control, and adaptation. This multidimensional contribution reinforces the argument that accounting information systems have evolved into essential components of modern managerial decision architectures.

Another important finding emerging from the literature concerns the relationship between digital accounting systems and organizational risk management. Digital environments expose organizations to various operational, financial, and regulatory risks that require continuous monitoring. Advanced accounting information systems support compliance activities through automated controls, anomaly detection mechanisms, and real-time reporting capabilities. Such functions enable managers to identify irregularities and potential threats before they generate significant organizational consequences. Studies examining management accounting information systems indicate that decision-making quality improves when organizations possess integrated mechanisms for monitoring risk and evaluating strategic alternatives simultaneously (Siagian et al., 2025). Similar observations are reported in research focusing on digital enterprises, where accounting information systems facilitate more informed decisions through enhanced visibility of organizational performance indicators (Susanti et al., 2025).

The synthesis of previous studies suggests that the contribution of DAIS to business decision-making cannot be understood solely from a technological perspective. The effectiveness of digital accounting systems emerges from the interaction between information quality, managerial interpretation, organizational processes, and strategic objectives. Accounting information functions as a bridge connecting operational realities with managerial actions, allowing organizations to respond more effectively to internal and external challenges. Research examining accounting, analytical, and financial support systems demonstrates that integrated information environments improve the quality of managerial judgments and strengthen organizational adaptability (Nuzhna et al., 2024). Recent literature further emphasizes that digital accounting systems have become indispensable instruments for modern business decision-making because they provide the informational foundation required for sustainable organizational growth and competitive performance (Nurtang & Masyuri, 2026).

Organizational Benefits and Strategic Implications of Digital Accounting Information Systems

The literature review indicates that the implementation of Digital Accounting Information Systems (DAIS) generates benefits that extend beyond accounting efficiency and reporting accuracy. Organizations increasingly utilize digital accounting infrastructures as strategic resources that support organizational development, performance improvement, and long-term competitiveness. The value created by DAIS emerges from its ability to transform financial data into meaningful information that can guide managerial actions across multiple organizational functions. This capability is particularly relevant in contemporary business environments where rapid technological change and market uncertainty require organizations to respond quickly and accurately to emerging opportunities and challenges. The reviewed studies suggest that firms capable of effectively integrating digital accounting systems into their managerial processes tend to exhibit stronger organizational performance and greater adaptability than those relying on conventional accounting practices (Maulana & Kustiwi, 2024).

One of the most frequently discussed organizational benefits concerns the enhancement of financial performance and operational efficiency. Digital accounting systems improve information flow throughout the organization, reducing administrative delays and enabling faster coordination among departments. Managers can access comprehensive financial information without relying on fragmented reporting structures, which contributes to more effective planning and resource utilization. The availability of integrated financial data also supports continuous monitoring of organizational performance, allowing managers to identify inefficiencies and implement corrective actions in a timely manner. Research focusing on management accounting information systems highlights that the strategic use of digital accounting information contributes to financial optimization by improving managerial control and strengthening organizational decision processes (Irman Ramdhan Fauzi et al., 2024).

The strategic implications of DAIS are also reflected in its contribution to organizational governance and accountability. Effective governance requires transparency, reliable information, and monitoring mechanisms capable of reducing information asymmetry among stakeholders. Digital accounting systems facilitate these objectives by providing standardized reporting procedures and improving the traceability of financial transactions. The availability of transparent information enhances stakeholder confidence because organizational performance can be evaluated using verifiable financial evidence rather than subjective assessments. Empirical findings further indicate that the adoption of digital accounting systems contributes positively to corporate governance quality by improving reporting integrity and strengthening internal control structures (Al-Hattami et al., 2024). These governance-related benefits demonstrate that accounting digitalization influences not only operational processes but also broader organizational structures and stakeholder relationships.

Another important implication emerging from the literature concerns strategic flexibility. Organizations operating in volatile markets require the capacity to adjust strategies in response to changing customer preferences, technological innovations, and competitive pressures. Digital accounting systems support this capability by providing continuous access to financial and operational information that can be utilized for forecasting, scenario analysis, and strategic evaluation. Studies examining emerging technologies within accounting information systems reveal that technological integration strengthens organizational flexibility by improving the quality and speed of decision-making processes (Yoshikuni et al., 2023). The relationship between information availability and strategic adaptability becomes particularly significant when organizations face uncertain business environments where delayed responses may result in lost opportunities or declining competitiveness.

The reviewed literature also suggests that the organizational value of DAIS is influenced by managerial characteristics and environmental conditions. Information systems may generate substantial quantities of data, yet the benefits derived from such information depend largely on how managers interpret and utilize it. Management accounting characteristics and environmental uncertainty have been shown to affect managerial performance because decision-makers must continuously evaluate information within complex organizational contexts (Hasibuan et al., 2023). This observation reinforces the notion that technological sophistication alone cannot guarantee organizational success. Effective outcomes emerge when digital accounting capabilities are complemented by managerial competencies capable of transforming information into strategic action.

From a broader perspective, DAIS contributes to sustainable organizational growth by supporting business development initiatives and strengthening long-term competitiveness. The availability of reliable accounting information enables organizations to evaluate market opportunities, allocate resources more effectively, and formulate strategies aligned with organizational objectives. Research focusing on business development initiatives demonstrates that digital accounting systems assist organizations in enhancing operational effectiveness while simultaneously supporting innovation and market expansion efforts (Rosdiyati et al., 2024). Contemporary discussions on sustainable decision-making similarly emphasize that high-quality digital accounting information improves the ability of organizations to balance economic objectives with long-term strategic considerations (Almgrashi, 2025). The synthesis of these findings positions DAIS as a strategic organizational asset whose value extends beyond financial administration toward the creation of sustainable competitive advantages and organizational resilience.

CONCLUSION

This study demonstrates that Digital Accounting Information Systems (DAIS) have evolved beyond their traditional role as financial recording and reporting tools to become strategic organizational resources that support business decision-making. The literature synthesis indicates that DAIS contributes significantly to the generation of high-quality information characterized by accuracy, timeliness, relevance, integration, and accessibility. These information attributes strengthen managerial capabilities in evaluating organizational conditions, identifying business opportunities, assessing risks, and selecting appropriate courses of action. The findings also highlight that information quality serves as the primary mechanism through which digital accounting systems influence decision effectiveness across operational, tactical, and strategic levels.

The analysis further reveals that the implementation of DAIS generates broader organizational benefits, including improved operational efficiency, enhanced financial performance, stronger internal control, greater transparency, and increased strategic flexibility. Through the integration of financial and operational information, organizations are better positioned to coordinate activities, allocate resources effectively, and respond to changing business environments. The strategic value of DAIS is particularly evident in its ability to support long-term planning, organizational learning, and sustainable business development. These advantages reinforce the importance of accounting digitalization as a key component of contemporary organizational transformation.

Despite these benefits, the successful implementation of DAIS remains dependent on several organizational factors. Investment requirements, employee competencies, technological readiness, system integration, and data security concerns continue to represent important challenges that may influence implementation outcomes. The findings suggest that technological adoption alone is insufficient to generate optimal organizational value without adequate managerial support and continuous capability development. Viewed from a broader perspective, DAIS represents a strategic enabler that strengthens organizational resilience and decision quality in increasingly complex and dynamic business environments. Organizations that effectively integrate digital accounting systems into their managerial processes are likely to achieve stronger competitiveness, improved adaptability, and more sustainable long-term performance.

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