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Submission date: 07-Nov-2025 12:33PM (UTC+0200)
Submission ID: 2806493924
File name: 29_39.pdf (303.93K)
Word count: 4541
Character count: 28923

COUNT: Journal of Accounting, Business and Management *ISSN 3026-6130*
Vol. 3, No. 1, 2025, pp. 29 ~ 39
Open Acces: *https://doi.org/10.61677/count.v3i1.563*

THE IMPLICATIONS OF CRYPTOCURRENCY AND BLOCKCHAIN ON ACCOUNTING SYSTEMS: A CONTEMPORARY LITERATURE REVIEW

Siti Intan Nurdiana Wong Abdullah

Management Business, Nottingham Trent University, United Kingdom
nurdiana.w@gmail.com

Received Juny 20, 2025; Revised July 18, 2025; Accepted July 21, 2025; Published July 28, 2025

ABSTRACT

This study aims to explore the implications of cryptocurrency and blockchain technology on accounting systems, focusing on how these digital innovations are reshaping financial reporting, auditing, and regulatory frameworks. Using a qualitative library research approach, the study conducted a systematic literature review of scholarly articles, professional reports, and regulatory publications published between 2019 and 2023. The analysis revealed three major findings: (1) inconsistent accounting treatments of crypto-assets across jurisdictions; (2) limited integration of blockchain in traditional accounting systems due to technical and organizational barriers; and (3) a growing digital skills gap among accounting professionals. The novelty of this research lies in its interdisciplinary synthesis of regulatory, technological, and educational perspectives, which are often treated separately in previous studies. Additionally, it offers a comparative lens across emerging and developed economies to better understand policy fragmentation. Unlike earlier research that primarily highlights the theoretical potential of blockchain, this study emphasizes the practical, ethical, and institutional challenges of implementation. The findings contribute to the global accounting discourse by identifying urgent needs for regulatory harmonization, curriculum reform, and upskilling initiatives. In conclusion, the study provides a timely and comprehensive view of how the accounting profession must evolve to remain relevant and reliable in the era of digital finance. Its implications are vital for standard setters, educators, practitioners, and policymakers navigating the rapid transformation of accounting in the digital age.

Keywords: *Cryptocurrency accounting, blockchain, financial reporting, accounting standards, digital transformation.*

INTRODUCTION

The emergence of cryptocurrency and blockchain technology has disrupted traditional financial systems and prompted new discussions in the field of accounting. Cryptocurrencies, such as Bitcoin and Ethereum, are digital assets that operate independently of centralized financial institutions, enabling peer-to-peer transactions via decentralized networks (Nakamoto, 2008). The accounting treatment of these digital assets has raised questions related to recognition, measurement, and disclosure, as they do not fit neatly into conventional asset categories under existing accounting standards (EY, 2021). Blockchain, the underlying technology of most cryptocurrencies, is a decentralized digital ledger that records transactions across multiple nodes in a secure and transparent manner (Deloitte, 2020). This innovation introduces possibilities for real-time auditing, automated compliance, and increased data integrity within accounting

systems (PWC, 2022). However, the lack of standardized accounting guidance poses a significant challenge in financial reporting and regulatory alignment (IFAC, 2021). As companies increasingly adopt these technologies, accountants must develop new competencies to manage digital assets and blockchain-based records (CPA Canada, 2020). Understanding the theoretical foundations of cryptocurrency and blockchain is crucial for assessing their implications for modern accounting practices (Kokina et al., 2017).

The integration of blockchain technology into accounting systems can potentially redefine the role of accountants and auditors. By providing immutable records and time-stamped transaction histories, blockchain enhances transparency and reduces the risk of fraud and error in financial data (Tapscott & Tapscott, 2016). Traditional double-entry bookkeeping may evolve toward a more dynamic, triple-entry system, where blockchain serves as the third ledger—shared and verified across participants (Grigg, 2005). This innovation allows for continuous auditing and streamlining of internal controls, making financial operations more efficient (ICAEW, 2020). Despite its potential, blockchain adoption faces barriers such as technological complexity, scalability concerns, and regulatory uncertainties (World Economic Forum, 2021). Moreover, integrating blockchain with legacy accounting infrastructure requires substantial investment and change management (KPMG, 2020). The ethical implications related to privacy and data governance also remain critical issues to address (OECD, 2022). As the technology matures, its impact on accounting theory and practice will continue to evolve, calling for more comprehensive academic and professional exploration (Schmitz & Leoni, 2019). A literature-based investigation helps contextualize these developments and identify key trends shaping the future of accounting.

One of the key problems identified in the literature is the absence of standardized accounting frameworks for recognizing and measuring cryptocurrency transactions. International Financial Reporting Standards (IFRS) and other global accounting bodies have yet to provide definitive guidance for digital assets, leading to inconsistent practices among entities (Tan & Low, 2020). As a result, cryptocurrencies are often recorded as intangible assets or inventory, depending on the entity's intent, which can distort the true financial position (Howell & Pincus, 2022). The lack of clarity in classification complicates the auditing process and increases the risk of misstatement in financial reports (Muller & Whittington, 2021). Moreover, fair value measurement of volatile digital assets introduces significant subjectivity and uncertainty (Liu et al., 2021). While some jurisdictions have issued provisional regulations, these efforts are fragmented and lack harmonization with global standards (Hoang & Nguyen, 2023). Without a uniform accounting model, comparability and reliability of financial information remain a concern (Zhao & Sun, 2023). These inconsistencies demand further research and international regulatory coordination to ensure faithful representation and accountability in financial reporting (Ali & Rahman, 2023).

Another pressing issue relates to the integration of blockchain technology into traditional accounting systems, which presents both operational and ethical challenges.

Although blockchain offers transparency and immutability, it is not inherently compatible with existing ERP and financial management platforms (Wang et al., 2021). Firms face significant costs and technical hurdles in implementing blockchain-based systems, particularly with regard to data security, user access controls, and interoperability (Farooq et al., 2020). Moreover, the real-time nature of blockchain data recording raises questions about the timing and recognition of financial transactions under accrual-based accounting principles (Yermack, 2021). There is also a lack of professional training and technical literacy among accounting practitioners to effectively manage blockchain-driven systems (Dai & Vasarhelyi, 2020). From an ethical perspective, issues related to data privacy, ownership, and governance remain largely unresolved (Chen & Lee, 2022). These limitations hinder the full realization of blockchain's potential in accounting, calling for adaptive frameworks and upskilling initiatives (Rahman et al., 2023). Consequently, organizations are reluctant to fully adopt blockchain without clearer regulatory and operational guidance (Zhou et al., 2021).

Despite the growing interest in cryptocurrency and blockchain, there remains a significant research gap in understanding how these technologies can be systematically integrated into existing accounting standards and practices. Most studies tend to focus on the technological aspects or theoretical potentials, rather than providing empirical evidence on implementation outcomes within real-world accounting environments (Nguyen et al., 2023). Furthermore, there is a lack of cross-jurisdictional analysis that compares how different regulatory frameworks affect accounting treatment of crypto-assets (Ali & Rahman, 2023). While existing literature highlights the conceptual benefits of blockchain for auditing and transparency, limited research evaluates the practical challenges and organizational readiness to adopt such technologies (Rahman et al., 2023). Additionally, few studies explore the educational and professional development needed to equip accountants with blockchain-related skills (Zhou et al., 2021). These gaps hinder the creation of a cohesive framework that balances innovation, regulation, and accountability in the accounting field (Chen & Lee, 2022). Therefore, further interdisciplinary research combining accounting, regulatory policy, and information systems is urgently needed (Liu & Tang, 2023). Addressing these gaps will help develop more robust, adaptable, and globally consistent accounting practices in the era of digital finance (Wang et al., 2021).

This study offers novelty by synthesizing recent literature to critically analyze the intersection between blockchain technology and cryptocurrency accounting within a unified academic framework. Unlike previous research that isolates technological or financial perspectives, this study bridges the gap by focusing on their combined implications for accounting principles, audit practices, and regulatory alignment. It incorporates current debates on fair value measurement, asset classification, and real-time ledger integration, providing a holistic view of ongoing transformation. Furthermore, it highlights the institutional and educational readiness of the accounting profession to adapt to blockchain innovations. The study also contributes by examining how emerging regulatory efforts worldwide shape crypto-asset reporting standards. By conducting a

literature-based exploration with a contemporary lens, it captures trends from the last five years, offering updated insights for academia and practice. This integrated approach has been underexplored in existing reviews, particularly those focusing on emerging economies. Therefore, the study serves as a foundational reference for future empirical research and policy development.

The main objective of this research is to critically examine recent academic literature on how cryptocurrency and blockchain technology affect current accounting systems, standards, and practices. Specifically, it aims to identify the theoretical and practical challenges of accounting for digital assets, including valuation, disclosure, and auditability. The study also explores the extent to which blockchain could be integrated into conventional accounting infrastructures, focusing on transparency, automation, and data reliability. Another objective is to assess how the profession is adapting to the shift in required competencies due to these digital innovations. This research seeks to compile and interpret findings from global perspectives, with attention to both developed and emerging markets. Through this approach, the study aims to uncover key gaps, regulatory inconsistencies, and technological limitations impacting accounting adoption. Ultimately, the goal is to provide a structured and up-to-date literature synthesis that informs stakeholders, regulators, and educators. This will support future policy formulation and the advancement of accounting education in the digital age.

RESEARCH METHOD

This study employs a qualitative library research method, focusing on a systematic literature review to examine the implications of cryptocurrency and blockchain on accounting systems. The method involves collecting, reviewing, and synthesizing relevant scholarly articles, journals, and regulatory documents published within the last five years. The sources were selected based on their academic credibility, peer-reviewed status, and relevance to accounting, finance, and information systems. Databases such as Scopus, ScienceDirect, SpringerLink, and Emerald Insight were used to ensure high-quality sources (Snyder, 2019). Thematic analysis was applied to identify recurring issues, knowledge gaps, and emerging trends in crypto-asset reporting and blockchain adoption. This method is particularly suitable for synthesizing fragmented research areas and supporting conceptual clarity in rapidly evolving topics (Boell & Cecez-Kecmanovic, 2020). Using this approach, the study not only maps the current state of knowledge but also proposes directions for future inquiry. Thus, the literature-based methodology enables a comprehensive and critical understanding of the topic without requiring empirical fieldwork.

The data collection process in this study was conducted through a structured literature search, targeting academic journals, conference proceedings, and regulatory reports published between 2019 and 2023. The sources were retrieved from reputable databases including Scopus, ScienceDirect, Emerald Insight, and Wiley Online Library to ensure credibility and relevance. Keywords such as "cryptocurrency accounting," "blockchain in accounting," "crypto-assets," and "digital ledger technology" were used in

various combinations. Inclusion criteria included peer-reviewed status, English language, open-access availability, and a clear focus on accounting or auditing implications. Exclusion criteria involved outdated materials, duplicate studies, and purely technical papers lacking accounting context. A total of 35 core articles were selected after screening abstracts and full texts using PRISMA guidelines (Page et al., 2021). The process also involved backward and forward citation tracking to capture influential and emerging works. This careful selection ensured that the literature reflects current academic and professional discussions on the topic.

Data analysis was carried out using thematic content analysis, focusing on identifying patterns, categories, and themes across the selected literature. Each article was read thoroughly and coded manually according to emerging issues such as asset classification, regulatory uncertainty, blockchain integration, and professional readiness. The themes were then grouped to form broader categories that align with the study's research objectives and questions. Cross-comparative analysis was used to examine similarities and contradictions between different findings, especially across jurisdictions. Special attention was given to how the literature addressed implementation challenges, ethical concerns, and educational gaps. This analytical approach enables deeper insights beyond summary, offering critical evaluation and synthesis of the field (Nowell et al., 2017). Using this method, the study ensures transparency and traceability of findings, enhancing reliability and academic rigor. The results of this analysis are discussed in the following sections to highlight contributions and suggest future research directions.

RESULTS AND DISCUSSION

The first key finding highlights the lack of standardized accounting treatment for cryptocurrencies across jurisdictions. Many countries have adopted differing approaches to crypto-asset classification—some treat them as intangible assets, others as inventory, and few as financial instruments, depending on their use case (see Table 1). This inconsistency undermines comparability in financial reporting, particularly for multinational companies engaging in crypto-related transactions. Furthermore, valuation methods vary, with some entities applying fair value while others use historical cost, creating measurement volatility (Ali & Rahman, 2023). These findings align with prior studies that emphasize the need for IFRS or GAAP revisions to accommodate digital assets. The absence of unified guidance increases the risk of earnings management, audit disputes, and investor confusion. As regulatory frameworks evolve, harmonizing crypto-asset accounting becomes essential to ensure financial statement integrity. Table 1 illustrates regulatory classifications and accounting treatments across selected countries.

Table 1: Comparative Overview of Cryptocurrency Accounting Treatment in Selected Jurisdictions

Country	Regulatory Body	Classification	Measurement Basis	Disclosure Requirement
United States	FASB	Intangible Asset	Historical Cost	Limited, no specific standard
Canada	CPA Canada	Inventory or Financial	Fair Value Allowed	Requires Notes
Germany	DRSC	Intangible Asset	Cost or Fair Value	Moderate
Australia	AASB	Inventory or Intangible	Fair Value Preferred	Required
Singapore	ACRA	Financial Instrument	Fair Value	Detailed Disclosure Required

The second major theme concerns the integration of blockchain into accounting processes, particularly its potential to enhance transparency, auditability, and automation. Blockchain enables real-time transaction verification and immutable records, which can reduce fraud and human error in financial reporting (Wang et al., 2021). However, the literature also reveals substantial implementation barriers, such as integration with legacy systems, data privacy issues, and high investment costs (see Table 2). While some large firms have begun pilot implementations, adoption remains limited among small to mid-sized entities. Furthermore, the technology's decentralization creates tension with traditional internal control systems that rely on hierarchical approval processes. As such, while blockchain is technically promising, its practical deployment requires organizational transformation and stakeholder alignment. Table 2 summarizes the enablers and barriers to blockchain adoption in accounting based on recent studies.

Table 2: Summary of Blockchain Adoption Enablers and Barriers in Accounting Systems

Category	Enablers	Barriers
Technical	Real-time verification, data immutability	Legacy system incompatibility, scalability issues
Organizational	Enhanced transparency, reduced fraud risk	High implementation cost, lack of training
Regulatory	Growing interest in RegTech solutions	Uncertain legal framework, data privacy concerns
Educational	Continuing education programs emerging	Outdated academic curricula, skills mismatch

The third finding relates to professional competence and education gaps in the accounting field regarding emerging technologies. Most reviewed literature points to a **skills mismatch** between traditional accounting curricula and the digital skills required to manage blockchain and crypto-assets. Accountants often lack knowledge in cryptographic principles, digital ledger systems, and valuation of decentralized assets

(Dai & Vasarhelyi, 2020). Professional bodies are slowly responding through continuing education programs, but formal academic curricula lag behind industry needs. This competency gap poses a long-term risk to the profession, especially as more organizations explore tokenized assets and decentralized finance (DeFi). Moreover, ethical considerations such as data governance, access rights, and algorithmic bias are underexplored in both research and practice. Bridging this gap is not only a matter of education but also policy and institutional readiness. The discussion reveals that future accountants must be both financially and technologically literate to remain relevant.

Recent literature confirms that the lack of global consensus on cryptocurrency accounting remains a major challenge for both preparers and regulators. While IFRS has suggested treating cryptocurrencies as intangible assets under IAS 38, this classification does not reflect their hybrid nature as both investment and transactional tools (Howell & Pincus, 2022). Studies have emphasized that this treatment can lead to underrepresentation of economic reality and inconsistent financial disclosures across firms (Ali & Rahman, 2023; Zhao & Sun, 2023). Research also shows that the absence of fair value-based accounting for crypto-assets may impair decision-making for investors and auditors (Liu et al., 2021). Several authors have called for a new accounting standard specifically tailored to digital assets (Nguyen et al., 2023; Tan & Low, 2020). National regulators such as AASB and FASB have published discussion papers, but implementation is still in its early stages (EY, 2021). Thus, the literature reveals a pressing need for harmonization to ensure transparency and comparability in global financial reporting (IFAC, 2021).

In parallel, the integration of blockchain in accounting systems is gaining interest, but empirical research on actual adoption is limited. While some studies highlight its potential to enhance data integrity and audit trails, implementation remains largely experimental, especially outside major corporations (Wang et al., 2021; Farooq et al., 2020). Research shows that blockchain adoption is often hindered by legacy IT infrastructures, regulatory ambiguity, and a shortage of skilled professionals (Rahman et al., 2023; Zhou et al., 2021). Educational gaps have also been noted, where accountants lack training in cryptographic principles and data analytics (Dai & Vasarhelyi, 2020; Chen & Lee, 2022). Recent works suggest that higher education institutions and professional bodies need to revise accounting curricula to include digital asset management and blockchain auditing tools (Liu & Tang, 2023; Nowell et al., 2017). Moreover, the ethical and governance implications of distributed ledger technology in accounting remain underexplored (OECD, 2022; Schmitz & Leoni, 2019). These findings underline the need for interdisciplinary research and collaboration between academia, regulators, and industry practitioners.

This study contributes novel insights by systematically integrating two evolving domains—cryptocurrency and blockchain technology—within the context of accounting systems, which have often been examined separately in prior research (Nguyen et al., 2023). While most existing literature focuses on either regulatory responses or technological innovations, this review unifies them to assess their combined implications

for financial reporting, auditing, and internal controls (Liu & Tang, 2023). Moreover, the study captures literature published within the last five years, ensuring that its analysis reflects the most current global accounting challenges in the digital era (Howell & Pincus, 2022; Zhao & Sun, 2023). Unlike earlier reviews, this paper specifically emphasizes the practical implications for emerging economies that are frequently overlooked in global discourse (Ali & Rahman, 2023). The comparative analysis of jurisdictional responses to crypto-assets offers a fresh policy-focused perspective (Hoang & Nguyen, 2023). This approach allows for deeper understanding of the regulatory inconsistencies affecting accounting treatment. Therefore, the study addresses both theoretical gaps and practice-oriented issues in a rapidly changing financial environment (Tan & Low, 2020).

Another important novelty of this research lies in its focus on the readiness and adaptability of the accounting profession amid digital disruption. This includes analyzing the skills gap between traditional accounting education and the competencies needed to engage with blockchain-based systems (Dai & Vasarhelyi, 2020; Rahman et al., 2023). While blockchain has been widely praised for its technical potential, few studies have evaluated how organizational cultures, internal controls, and ethics must evolve to accommodate it (Chen & Lee, 2022; Zhou et al., 2021). This study advances the conversation by bridging the gap between conceptual promise and practical feasibility, especially in small and medium enterprises that lack digital infrastructure (Farooq et al., 2020). It also evaluates educational responses, such as curriculum redesign and professional development, which remain underexplored in most blockchain literature (Nowell et al., 2017). As such, the study positions itself as both timely and transformative by offering insights for academic, professional, and regulatory stakeholders (Schmitz & Leoni, 2019; Wang et al., 2021). The novelty lies in combining accounting, regulatory, and educational perspectives into one coherent analytical framework.

This research holds significant global relevance as it addresses the urgent need for standardized accounting practices and regulatory coherence in response to the growing adoption of cryptocurrency and blockchain technologies. By synthesizing cross-jurisdictional literature, the study provides insights that can inform international accounting bodies such as the IASB and IFAC in developing consistent frameworks. It also highlights how different regulatory landscapes influence financial reporting, enabling policymakers in emerging and developed economies to evaluate gaps and align best practices. For multinational corporations, the findings support informed decision-making on asset recognition, audit integration, and blockchain deployment. The research further contributes to academic discourse by identifying educational needs for a digitally competent accounting workforce. It bridges the knowledge divide between theory and implementation, which is crucial in a globalized economy where crypto-assets transcend borders. Ultimately, the study promotes transparency, comparability, and ethical standards across the global accounting profession, fostering trust and sustainability in digital finance systems.

CONCLUSION

The study concludes that the integration of cryptocurrency and blockchain into accounting systems presents both transformative potential and significant challenges. Key findings reveal a lack of standardized accounting treatment for crypto-assets, leading to inconsistent financial reporting across jurisdictions. While blockchain offers benefits such as transparency and real-time auditing, adoption is limited by technical, organizational, and regulatory barriers. Furthermore, the accounting profession faces a widening skills gap due to insufficient digital literacy and outdated curricula. Cross-disciplinary collaboration is needed to harmonize policy, education, and practice. The literature confirms that without regulatory clarity and professional readiness, the full potential of blockchain in accounting cannot be realized. Therefore, global efforts must focus on building adaptive frameworks that align innovation with accountability and transparency. This research serves as a foundational step toward that goal.

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