

A Bibliometric Review of Knowledge Management Systems in Organizational Learning and Innovation

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ABSTRACT

This study employs a bibliometric analysis to explore the evolution of research themes within the field of organizational learning and innovation from 2006 to 2014. Utilizing VOSviewer for network visualization, the research identifies key thematic shifts over time, tracing the trajectory from foundational aspects such as information technology and tacit knowledge to more complex constructs like organizational innovation and leadership. The analysis reveals a gradual shift towards integrating technology with organizational capabilities, highlighting how evolving technologies influence learning environments and innovation processes. Practical implications are discussed, suggesting ways organizations can adapt to these trends to enhance knowledge management and innovation. Theoretical contributions are also noted, emphasizing the study's role in enriching the understanding of the dynamic interplay between organizational knowledge processes and innovation. Limitations of the bibliometric method and the potential subjectivity of visual data interpretation are acknowledged, setting the stage for future research to build upon these foundational findings.

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1. INTRODUCTION

In the contemporary business environment, the relentless pace of technological advancement and globalization has compelled organizations to continually seek innovative ways to sustain competitive advantages [1], [2]. Knowledge Management Systems (KMS) have emerged as critical tools that enable organizations to effectively harness and exploit knowledge to drive innovation and learning [3], [4]. KMS are sophisticated information systems designed

to assist in the creation, storage, retrieval, transfer, and application of knowledge [5]. As businesses increasingly recognize knowledge as a pivotal asset, the integration of KMS in organizational strategies has become more prevalent.

The interplay between KMS, organizational learning, and innovation is a dynamic area of interest within the field of business management [6]. Organizational learning theory suggests that the ability of an organization to learn from its environment and internal processes significantly influences

its capacity for innovation [7]. In this regard, KMS serve as a catalyst for learning by disseminating knowledge across various levels of the organization, thereby enhancing the collective understanding and capabilities that drive innovative outcomes [8]

Moreover, the evolution of KMS has been significantly influenced by rapid technological changes, including the advent of artificial intelligence, machine learning, and data analytics [9]. These technologies have transformed traditional KMS into more advanced systems capable of providing deeper insights and predictive analytics, thereby enriching the decision-making processes and fostering an innovative organizational culture [10]. Despite these advancements, the effectiveness of KMS in enhancing organizational learning and fostering innovation remains a complex issue, subjected to the specific contexts and capabilities of organizations [2], [11].

Bibliometric analyses offer a unique lens through which the development and impact of KMS on organizational learning and innovation can be examined. By systematically analyzing a large volume of academic literature, bibliometric reviews provide insights into the trends, gaps, and networks of knowledge that form around this subject area. Such reviews are crucial for academicians and practitioners alike, as they outline the evolutionary trajectory of research themes and identify the most influential studies, authors, and institutions within the field [12], [13].

The theoretical framework for this study is anchored on two main theories: the Knowledge-Based Theory of the Firm, which posits that knowledge is the most strategically significant resource of a firm [14], and the Organizational Learning Theory, which focuses on how organizations modify their actions based on new information and experiences [15]. These theories underpin the assumption that KMS enhance information processing capabilities and experiential learning opportunities, thereby promoting innovation and continuous improvement within organizations.

Despite the extensive adoption of KMS in various organizational processes, the empirical evidence on its direct impact on organizational learning and innovation is fragmented and inconclusive. This gap is partly due to the diverse methodologies, metrics, and contexts applied in existing studies, which have led to varied findings and interpretations. Additionally, there is a lack of comprehensive reviews that integrate these diverse studies to provide a coherent understanding of how KMS contribute to organizational learning and innovation. This fragmentation represents a significant gap in literature and poses challenges for organizations seeking to leverage KMS for enhanced innovation and learning outcomes.

The objective of this research is to conduct a bibliometric review of the existing literature on Knowledge Management Systems in the context of organizational learning and innovation. This review aims to map out the intellectual structure of the field, identify the most impactful theories, authors, and articles, and uncover the prevailing trends and gaps in the literature. By achieving this, the study seeks to provide a comprehensive overview that could guide future research directions and help practitioners in the formulation and implementation of effective KMS strategies for enhanced organizational learning and innovation.

2. LITERATURE REVIEW

2.1 Overview of Knowledge Management Systems

Knowledge Management Systems (KMS) are integral to the architecture of modern organizations, designed to facilitate efficient management, storage, and dissemination of knowledge. According to [16], KMS encompass a range of practices and technologies that aim at increasing organizational performance by integrating the process of creating, sharing, and applying knowledge. Organizations deploy KMS to enhance decision-

making capabilities, streamline processes, and foster innovation by making the best use of available knowledge assets. These systems typically include databases, document management systems, learning management systems, and collaboration tools that help maintain an effective knowledge ecosystem.

2.2 *Role of KMS in Organizational Learning*

Organizational learning involves the processes through which organizations adapt to their environment and improve collectively. [17] elaborate that organizational learning is a dynamic process of creating, retaining, and transferring knowledge within an organization. KMS play a critical role in this context by providing the tools that facilitate the capture of tacit knowledge (personal know-how) and its transformation into explicit knowledge (documented information). By enabling this conversion, KMS help create a repository of accessible information that can be used to train new employees, support decision making, and stimulate innovation. The relationship between organizational learning and KMS is thus viewed as synergistic, where learning processes are supported by KMS, and these systems, in turn, are enriched through continuous learning cycles.

2.3 *KMS and Innovation*

Innovation in organizations often requires a fertile environment where ideas can be generated, tested, and implemented effectively. KMS support these activities by enabling the flow of information and ideas across different levels of an organization. Davenport, [18] argue that effective knowledge management practices can significantly enhance the innovative capacity of an organization by

ensuring that innovative ideas and practices are quickly disseminated and incorporated into organizational processes. Furthermore, the integration of advanced analytics and artificial intelligence in KMS has opened new avenues for predictive innovation, where data-driven insights lead to more strategic decision-making and creative problem-solving.

2.4 *Technological Advances in KMS*

The landscape of KMS is continually evolving with advancements in technology. Modern KMS are increasingly incorporating artificial intelligence (AI), machine learning (ML), and big data analytics to enhance their capabilities. These technologies enable the automation of complex processes, such as data mining and natural language processing, which facilitate more sophisticated analysis and forecasting. According to a study by [19], AI-enhanced KMS can significantly improve organizational responsiveness by providing timely and relevant information that supports decision-making and innovation processes. This technological evolution is not without challenges, however, as it requires significant investment in both technology and training, along with a strategic alignment with the organization's overall goals.

2.5 *Empirical Studies on KMS Impact*

Empirical research on the impact of KMS on organizational learning and innovation presents mixed results. While some studies, like those by [20], have found positive correlations between KMS usage and improved organizational performance, others highlight the challenges and limitations associated with KMS implementations. [21] notes that the success of KMS depends heavily on the

organizational culture and the users' willingness to share and use knowledge. The effectiveness of KMS is also influenced by how well these systems are integrated into the organizational processes and how they align with the users' needs and expectations.

2.6 Integration of KMS into Organizational Strategy

Strategic integration of KMS involves aligning these systems with the broader objectives of the organization. According to [22], for KMS to effectively support learning and innovation, they must be designed with a clear understanding of the organization's strategic goals. Effective KMS are those that not only provide necessary tools and processes but also encourage a culture of knowledge sharing and continuous learning. The strategic alignment also includes training and development programs that equip employees with the skills needed to utilize these systems effectively and promote an organizational culture that supports knowledge sharing and innovation.

3. METHOD

This research employs a bibliometric analysis to systematically review the literature on Knowledge Management Systems (KMS) in organizational learning and innovation. The primary data for this study is sourced Google Scholar, covering publications from the year 1983 to 2024. The search strategy involves using specific keywords such as "Knowledge Management Systems", "organizational learning", and "innovation" to retrieve relevant articles. The selected articles are then analyzed using VOSviewer software, which facilitates the creation of bibliometric maps that visualize the relationships between various research documents and terms. This method helps in identifying the most frequently discussed themes, the evolution of research over time, and the interconnections between different knowledge areas. Additionally, the analysis includes a citation and co-citation assessment to determine the most influential authors, articles, and journals within the field.

4. RESULT AND DISCUSSION

4.1 Result and Discussion

a. Metrics Data of Literature

Table 1. Research Data Metrics

Metrics Data	Information
Publication years	1983-2024
Citation years	41
Papers	980
Citations	642658
Cites/year	15669.71
Cites/paper	655.57
Cites/author	404708.00
Papers/author	508.12
Authors/paper	2.46
h-index	336
g-index	797
hI,norm	257
hI,annual	6.27
hA, index	89
Paper with ACC > =	1,2,5,10,20:966,953,835,651,472

Source: Output Publish or Perish, 2024

Table 1 provides a comprehensive bibliometric analysis

of research on Knowledge Management Systems (KMS)

spanning from 1983 to 2024. Over these 41 years, a total of 980 papers have been published, generating a substantial 642,658 citations, which averages to 15,669.71 citations per year and 655.57 citations per paper. This high citation rate indicates the significant impact and relevance of the research in this field. The data also shows a high level of collaboration, with an average of 2.46 authors per paper, although the productivity per author (508.12 papers/author) might be skewed by multi-authorship of single papers. The h-index of 336 and a g-index of 797 further validate the robust academic influence and depth of the contributions in this field. The

hI,norm of 257 and an hI,annual of 6.27 suggest a consistent and significant contribution by the authors over the years. Additionally, the hA index at 89 reflects the adjusted author productivity considering co-authorship. The table also details the accessibility and academic reach of these papers, with 966 papers having at least one citation, and a strong presence in higher citation categories, highlighting the enduring relevance and utility of the research in KMS within organizational learning and innovation.

b. Citation Analysis

Table 2. Most Cited Article

Citations	Author and Year	Title
40786	[23]	Organizational learning: A theory of action perspective
33996	[24]	Exploration and exploitation in organizational learning
17434	[16]	Knowledge management and knowledge management systems: Conceptual foundations and research issues
15687	[25]	Organizational learning and communities-of-practice: Toward a unified view of working, learning, and innovation
15411	[26]	Organizational learning
15207	[27]	Organizational learning: The contributing processes and the literatures
10691	[28]	Building a learning organization
9588	[29]	Organizational learning
9021	[30]	Knowledge management: An organizational capabilities perspective
8128	[31]	An organizational learning framework: From intuition to institution

Source: Output Publish or Perish, 2024

Table 2 lists the most cited articles in the field of Knowledge Management Systems (KMS) and organizational learning, highlighting their pivotal contributions and findings:

1. Argyris, C., & Schön, D.A. (40786 citations)
Their work, "Organizational Learning: A Theory of Action Perspective," introduces the concept of single-loop and double-loop learning in

organizations. This framework helps explain how organizations learn from their actions through corrections and adaptations to achieve their goals, and how they reevaluate their underlying assumptions for deeper learning and transformation.

2. March, J.G. (33996 citations)
In "Exploration and Exploitation in Organizational Learning," March discusses the balance organizations must maintain between exploring new

- possibilities and exploiting existing capabilities. This balance is crucial for organizations to innovate while also utilizing their current resources efficiently.
3. Alavi, M. & Leidner, D.E. (17434 citations)
Their article "Knowledge Management and Knowledge Management Systems: Conceptual Foundations and Research Issues" provides a foundational framework for understanding how knowledge management systems support the creation, storage, and dissemination of organizational knowledge, highlighting the strategic importance of these systems.
 4. Brown, J.S., & Duguid, P. (15687 citations)
"Organizational Learning and Communities-of-Practice: Toward a Unified View of Working, Learning, and Innovation" explores how communities of practice within organizations serve as a bridge between learning and working, suggesting that these informal networks are critical for innovation and knowledge sharing.
 5. Levitt, B., & March, J.G. (15411 citations)
Their work on "Organizational Learning" further elaborates on how organizations learn from history and experience, improving their routines and practices based on past outcomes, thus emphasizing the importance of historical context in organizational decision-making.
 6. Huber, G.P. (15207 citations)
In "Organizational Learning: The Contributing Processes and the Literatures," Huber integrates various perspectives on organizational learning, detailing the processes such as information acquisition, distribution, interpretation, and organizational memory that contribute to learning.
 7. Darwin, C. (10691 citations)
"Building a Learning Organization" offers practical insights into structuring an organization that facilitates continuous learning and adaptability, thus enhancing organizational flexibility and competitiveness.
 8. Fiol, C.M., & Lyles, M.A. (9588 citations)
Their article "Organizational Learning" focuses on the cognitive development within organizations, examining how interpretations and insights derived from experiences lead to learning.
 9. Gold, A.H., Malhotra, A., & Segars, A.H. (9021 citations)
"Knowledge Management: An Organizational Capabilities Perspective" argues that knowledge management enhances organizational capabilities by leveraging technological systems and organizational processes to improve the overall decision-making process.
 10. Crossan, M.M., Lane, H.W., & White, R.E. (8128 citations)
"An Organizational Learning Framework: From Intuition to Institution" presents a dynamic model of how learning occurs at individual, group, and organizational levels, and how these levels interact to embed knowledge within the organization.

c. Descriptive Analysis

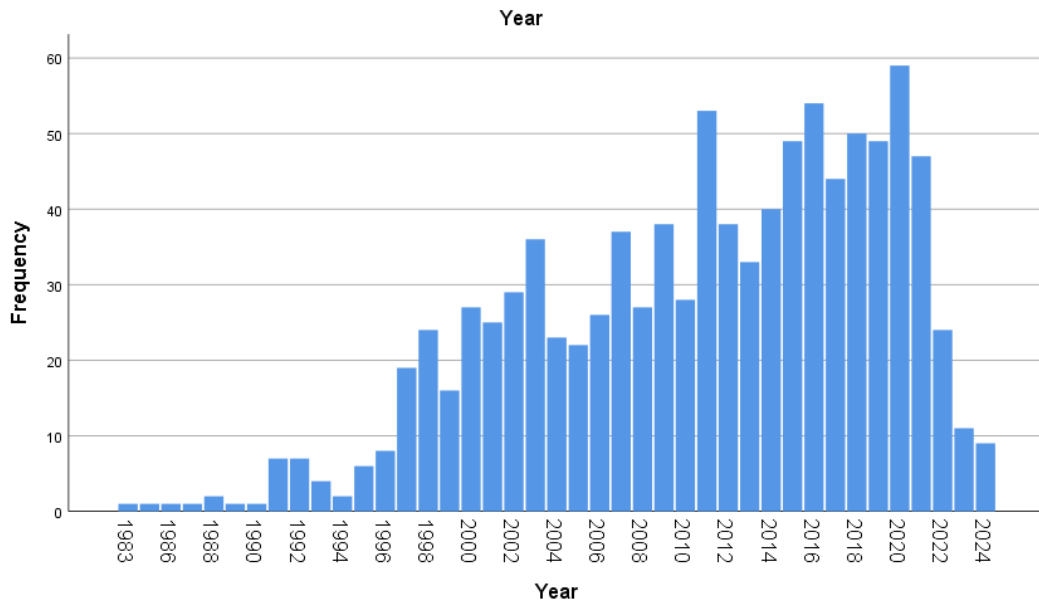


Figure 1. Publication by Year

The graph illustrates the frequency of publications over the years from 1986 to 2024 related to Knowledge Management Systems in organizational learning and innovation. The data shows a gradual increase in publications from 1986, with a more notable rise starting in the early 2000s. The frequency peaks around 2016, indicating heightened

research activity during this period. After 2016, there is a slight fluctuation in publication frequency, yet it remains relatively high compared to the earlier years, demonstrating sustained interest and ongoing research in this field. The decrease observed in 2024 could be attributed to incomplete data for the year.

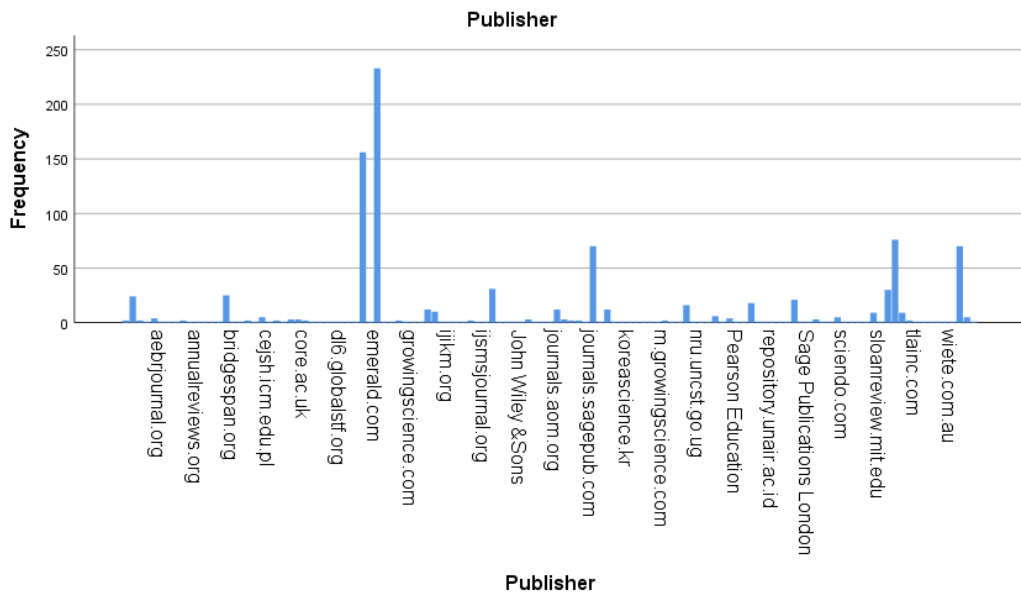


Figure 2. Publication by Publisher

The bar graph depicts the distribution of publications by different publishers in the field of Knowledge Management Systems in organizational learning and innovation. The publisher "core.ac.uk" stands out with the highest frequency, significantly surpassing other publishers with around 200 publications, indicating it as a major platform for research dissemination in this area. Other notable publishers include "journals.sagepub.com" and "sciencedirect.com," each showing a moderate frequency of publications, suggesting their active role in publishing research on this topic.

The majority of publishers, however, have a relatively low frequency of publications, with many

contributing fewer than 50 articles. This spread indicates a diverse array of platforms where research on Knowledge Management Systems is shared, although the concentration in a few publishers like "core.ac.uk" demonstrates their prominence and possible specialization in this domain. The graph provides insights into the landscape of publication channels in the field, highlighting where researchers might focus their submissions based on the visibility and impact of these publishers. This information is crucial for scholars seeking to maximize the reach and influence of their work within the academic community.

d. Word Co-Occurrence Network Analysis

1. Word Network Visualization

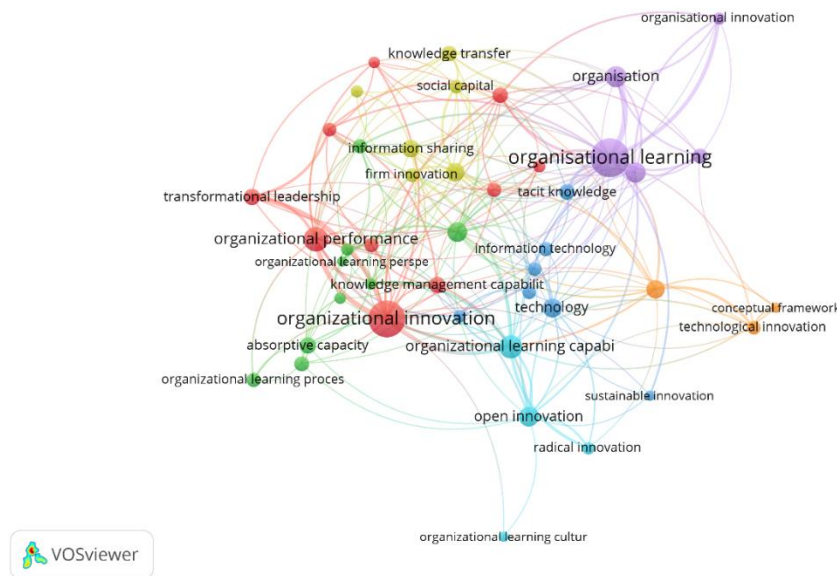


Figure 3. Network Visualization

The VOSviewer network visualization illustrates the key thematic areas and their interconnections within the research on Knowledge Management Systems (KMS) in organizational learning and innovation. Each node

represents a significant term used in the literature, with the size indicating the frequency of the term's occurrence, and the connecting lines represent the strength and frequency of co-occurrences between terms in the scholarly articles.

Table 3. Item of Clusters

Clusters	Items	Description
Red Clusters	“Organizational Innovation”, “Knowledge Management Capability”, “Organizational Performance”, “Transformational Leadership”.	This cluster focuses on the strategic aspects of knowledge management and leadership within organizations. It emphasizes how leadership and knowledge capabilities drive organizational innovation and performance.
Yellow Clusters	“Knowledge Transfer”, “Social Capital”, “Information Sharing”, “Firm Innovation”	Central to this cluster are the mechanisms and social structures that facilitate the sharing and transfer of knowledge within firms, contributing directly to innovation.
Green Clusters	“Organizational Learning Process”, “Absorptive Capacity”, “Organizational Learning Perception”	This cluster deals with the processes and capacities necessary for learning within organizations, focusing on how organizations perceive, assimilate, and apply new knowledge.
Blue Clusters	“Tacit Knowledge”, “Information Technology”, “Technology”, “Organizational Learning Capability”, “Open Innovation”, “Radical Innovation”, “Sustainable Innovation”, “Organizational Learning Culture”	Highlighting the role of technology and culture in learning, this cluster explores how tacit knowledge and technological tools support innovative and sustainable practices within organizations.
Purple Clusters	“Organizational Innovation”, “Organization”, “Organizational Learning”	This cluster addresses the broader concepts linking organizational structure and behavior with learning and innovation, illustrating the foundational role of learning in organizational adaptation and growth.
Orange Clusters	“Technological Innovation”, “Conceptual Framework”	Focused on the frameworks and technologies driving innovation, this cluster explores the theoretical underpinnings that guide the implementation and impact of technological advances in organizations.

These clusters highlight the multifaceted nature of

knowledge management and its role in fostering organizational

learning, innovation, and overall performance, reflecting a complex interplay between technological, cultural, and

strategic dimensions within organizations.

2. Word Overlay Visualization

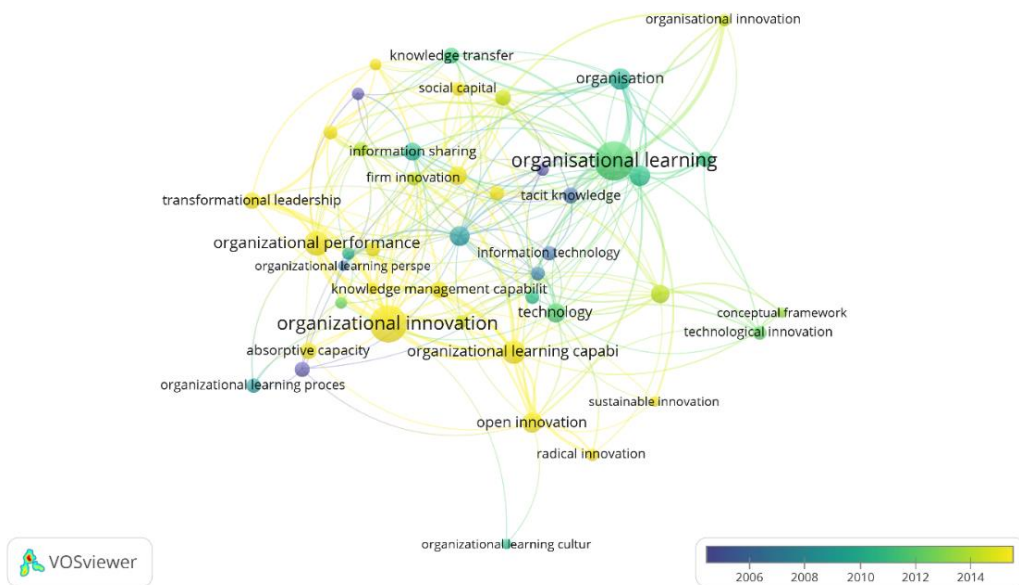


Figure 4. Overlay Visualization

The second visualization displays the interconnections between various key terms related to organizational learning and innovation over a timeline from 2006 to 2014. This temporal dimension, represented by the color gradient from blue to yellow, helps trace the evolution and shifting focus in research within this field over these years. The nodes' color transition from blue to yellow signifies the relative prominence of topics across the timeline, with blue indicating earlier years (around 2006) and yellow representing later years (towards 2014). This visual representation helps identify shifts in the research focus or emerging trends within the period studied.

In the early years, the research focus was primarily on

information technology and tacit knowledge. This period reflects an emphasis on the foundational elements of how technology facilitates the capture and dissemination of tacit knowledge—the uncodified, experiential knowledge that is often difficult to formalize and communicate. The focus on information technology highlights the early recognition of the digital tools that support the management of knowledge within organizations, setting the groundwork for more integrated systems and platforms that enhance knowledge sharing and organizational learning.

As the field matured, the middle period saw a shift towards more interactive and process-oriented themes such as organizational learning,

knowledge transfer, and information sharing. This shift indicates a deeper exploration into how organizations learn and grow from internal and external interactions. Knowledge transfer and information sharing become pivotal processes, suggesting a move towards understanding the mechanisms through which knowledge is communicated and leveraged for organizational benefit. This period likely corresponds with a growing awareness of the social and collaborative aspects of learning within organizational settings.

In the later years, the research prominently features terms like organizational innovation, open innovation, radical innovation, sustainable innovation, transformational leadership, social capital, and absorptive capacity. This transition marks a significant expansion in scope, focusing on the outcomes of effective knowledge management and organizational learning—namely, innovation and leadership. The emphasis on different types of innovation (open, radical, and sustainable) reflects a nuanced understanding of the varied ways in which organizations can be innovative. Furthermore, transformational leadership and social capital suggest a recognition of the role of leadership and relational networks in facilitating an innovative and learning-oriented organizational culture. Absorptive capacity underscores the ability of organizations to assimilate and apply new knowledge, which is critical for sustaining innovation.

This evolution from foundational technology and individual knowledge concepts to complex organizational processes and innovative outcomes illustrates a broadening in the academic approach to organizational learning. Initially focused on the enabling tools and personal dimensions of knowledge, the field has grown to encompass a systemic understanding of how these elements interconnect to foster learning environments that drive innovative performance.

For researchers, this timeline provides a chronological framework to explore how theoretical advancements and technological developments have influenced organizational practices. For practitioners, understanding this progression can aid in strategizing more effective knowledge management and innovation policies that are responsive to both historical insights and future trends. This comprehensive view also highlights potential areas for future research, particularly in integrating new technologies like AI and machine learning into established frameworks of organizational learning and innovation.

3. Word Density Visualization

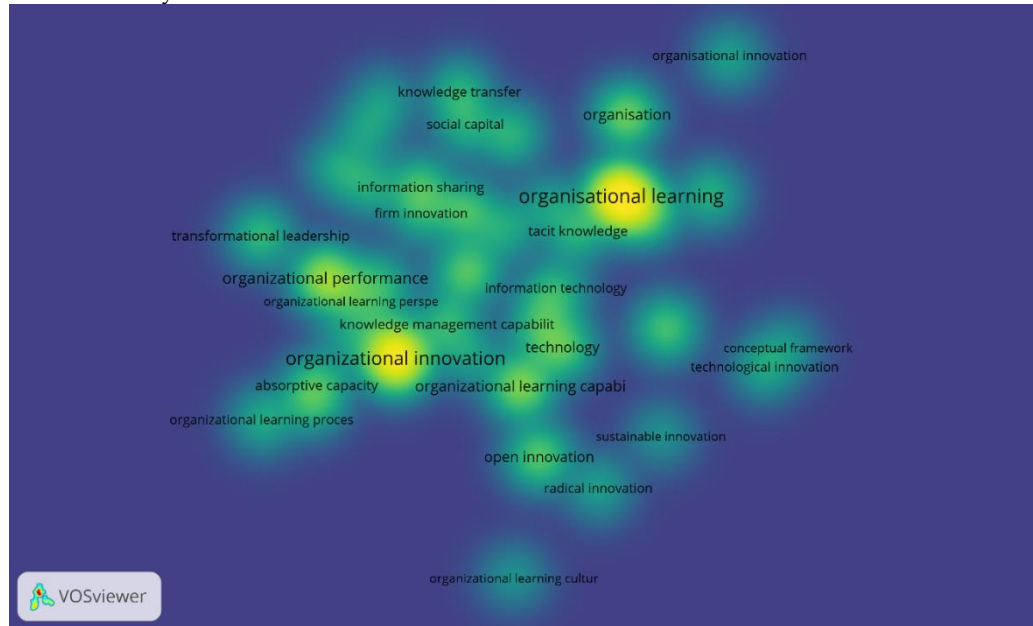


Figure 5. Density Visualization

The brightest areas of the map, shown in vibrant green, indicate topics that are densely researched and well-connected within the field. These include "organisational learning," "knowledge management capability," "information technology," "organizational innovation," and "transformational leadership." These topics are central and highly interconnected, suggesting they are foundational to current research trends in organizational learning and innovation.

The less bright areas indicate potential gaps or emerging fields within the broader topic. These areas are not as densely covered in the literature and might represent emerging trends or underexplored intersections that could hold potential for future research. Therefore, several potential research topics identified as follows:

While organizational learning itself is a well-explored area, the specific cultural aspects that facilitate or hinder this learning within organizations may not be as densely researched. Investigating how organizational culture impacts the adoption and effectiveness of learning processes could provide new insights. The topics of radical and sustainable innovation while recognized, appear in slightly less bright areas, suggesting that the deeper exploration into how radical innovations disrupt existing markets and how sustainability can be integrated into innovation processes could yield valuable findings. The balance and conflict between radical innovation and sustainability could be particularly intriguing.

Located in a moderately bright area, this indicates a medium level of research density. Absorptive capacity, or an organization's ability to recognize the value of new

information, assimilate it, and apply it to commercial ends, could be further explored in the context of rapid technological change and digital transformation. On the other hand, although both linkage between transformational leadership and technological innovation areas are well-studied individually, the intersection of transformational leadership with the adoption and implementation of new technologies could be further explored. Research could focus on how leadership styles influence organizational capacity to adopt emerging technologies.

The visualization suggests a robust foundational body of work in organizational learning and innovation, centered around key themes of technology integration, knowledge management, and organizational performance. The less bright areas provide a roadmap for potential research that could fill gaps in the current literature or expand understanding in less explored dimensions. These topics not only cater to academic exploration but are also crucial for practical applications in organizational development and management strategy.

e. Author Collaboration Network Analysis



Figure 6. Author Collaboration Network

The last visualization displays a map of authors within a specific academic field, likely organizational learning and innovation, with each node representing an individual author. The varied colors of the nodes could denote different research clusters or

thematic groups, indicating the diverse focuses within the field. Most authors appear as isolated nodes with few visible links, suggesting that while these scholars contribute significantly to the field, they do so with minimal direct collaboration. Notable exceptions include authors

like "Scarborough, H." and "Newell, S." who are positioned closer together, indicating potential collaboration or thematic alignment in their research efforts. This pattern reflects a field characterized by a wide range of independent contributions, with each researcher potentially pioneering distinct approaches or topics within organizational learning and innovation.

4.2 Practical Implication

The findings from this research offer several practical implications for organizations seeking to enhance their knowledge management and innovation capabilities. First, the recognition of the importance of information technology and tacit knowledge in the early years highlights the necessity for firms to invest in robust IT infrastructures that facilitate knowledge sharing and integration. As the focus shifts towards organizational learning and innovation, companies should prioritize creating cultures that not only encourage knowledge exchange but also support innovative practices. For leaders, understanding the evolution from individual knowledge components to organizational capabilities can guide the development of strategies that foster a continuous learning environment conducive to innovation.

4.3 Theoretical Contribution

This study contributes theoretically by mapping the evolution of key themes within organizational learning and innovation over several years, providing a nuanced understanding of the field's trajectory. It emphasizes the shift from foundational technological and knowledge-based themes to complex organizational processes and outcomes like innovation and leadership. This

temporal analysis enriches the literature by showing how the interplay between technology, knowledge management, and organizational culture has evolved, offering insights into the dynamic nature of learning and innovation within organizations.

4.4 Limitations

This research is not without limitations. The reliance on bibliometric data and network visualizations may overlook the qualitative nuances of individual research contributions. Additionally, the analysis is constrained to the scope of documents available in the databases used, potentially omitting relevant publications that are not indexed or are in less accessible journals. Furthermore, the visual interpretation of network maps is somewhat subjective and depends on the algorithms used by the VOSviewer software, which might influence the understanding of thematic relevance and author connectivity.

5. CONCLUSION

The study effectively highlights the progressive shifts in focus within the field of organizational learning and innovation, from initial emphases on technology and tacit knowledge to more integrated views of organizational capabilities and innovation processes. It underlines the critical role of evolving technologies and leadership in shaping learning environments that are adaptive and conducive to innovation. By understanding these trends, researchers and practitioners can better anticipate future directions in organizational learning and tailor their strategies to leverage these insights for enhanced organizational performance and innovation. This research also sets the stage for further studies to explore underrepresented areas, such as the impact of emerging technologies on learning processes,

thereby continuing to expand the theoretical and practical understanding of this vital field.

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