

Digital Technology in Quality Management: Bibliometric Computational Mapping Analysis

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	ABSTRACT
<i>Keywords:</i> Bibliometric; computational mapping analysis; digital technology; quality	This study used the bibliometric method and computational mapping analysis using VOSviewer to examine the development of research on the use of digital technology in quality management. Article data were obtained from Google Scholar using the Publish or Perish Reference Manager application. Data collection was conducted based on the keywords "quality management" and "digital technology". The search found 779 relevant articles. The study period was the last 20 years (2003–2022) and the articles were indexed by Google Scholar. The results showed that research on digital technology in quality management could be divided into four terms. The first term was "quality management", with 91 links, 1695 total link strength, and 530 related events. The second term was "total quality management", with a total of 84 links, a total link strength of 1386, and 309 related events. The third term was "quality management system", with a total of 61 links, the total link strength of 425, and 121 related events. The fourth term was "digital technology", with a total of 53 links, the total link strength of 551, and 251 related events. The analysis also showed that the number of publications on digital technology in quality management tended to increase over the past 22 years, although it fluctuated every year. The peak occurred in 2020 with 78 articles. The results of this study could serve as a starting point for further research on the starter is the serve of the study
management, vosviewel	this topic.

1. Introduction

Quality management is a systematic approach to identifying, planning, controlling, and improving the quality of products or services in an organization [1,97]. It involves coordinating and managing all quality-related activities, with the aim of meeting or exceeding customer expectations [2-4]. Digital technology has opened the door for the development of new tools and techniques for quality management. Many research on digital technology has been well-documented [5-20]. The integration of quality management and digital technology has brought many benefits, such as increased automation, process optimization, and system integration between organizational areas.

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With this integration, the capacity of quality tools and methods can also be expanded to achieve better managerial goals [21-23].

Several digital technologies are used in quality management, such as Product Lifecycle Management (PLM), CALS technologies, Enterprise Resource Planning (ERP), Product Data Management (PDM), Laboratory Information Management System (LIMS), Enterprise Asset Management (EAM) systems, Digital Twin Technology, Artificial Intelligence and Robotics, Big Data and Business Analytics, Digital Marketing, Internet of Things (IoT), Quantum Computing, Information Storage Technology, Virtual and Augmented Reality, and Digital Virtual Reality (VR) simulators [23-36]. The integration of digital technology in quality management has gained its importance in recent years because of the increasing demand for quality products and services. However, in the field of research, it is still uncertain whether digital technology for quality management is in a great demand.

Bibliometric analysis is an analytical technique useful for tracking the development of research related to the use of digital technologies in quality management. Bibliometric analysis is a form of meta-analysis of research data that helps researchers study bibliographic contents and analyse citations contained in articles published in journals and other scientific works. Using bibliometric analysis, researchers can gain insight into research trends, the most widely covered topics, and the most important contributors in the field. This technique enables the mapping of relevant research developments and provides a better understanding of previous research in the field of digital technology for quality management [37-39].

Many studies have been conducted on bibliometric analysis in various fields, including chemical engineering [40,41], materials research [42], techno-economic education publications [43], datasets illustrating the decline in the number of scientific publications [44], effectiveness of research in the field at top universities [45], educational research [46], technology acceptance [47], financial technology (FinTech) [48,49], digital marketing [50,51], e-service quality [52,53], Internet of Things (IoT) [54,55], and Total Quality Management (TQM) [56]. To date, research that specifically performs bibliometric computational mapping analyses related to digital technology in quality management remains limited, particularly the bibliometric analysis of research conducted in the last 20 years, from 2003 to 2022, using the VOSviewer application. Table 1 shows previous studies on bibliometric.

To overcome the limitations of previous research, this study aimed to conduct a bibliometric analysis using VOSviewer software on articles indexed by Google Scholar. This research is expected to guide researchers in determining research topics, especially those related to digital technology in quality management, based on mapping and analysis of bibliometric data.

Table 1

Pre	vious studies on bibliometric	
No	Title	Ref.
1	Involving Particle Technology in Computational Fluid Dynamics Research: A Bibliometric Analysis	[57]
2	Bibliometric Computational Mapping Analysis of Trend Metaverse in Education using VOSviewer	[58]
3	The Use of Information Technology and Lifestyle: An Evaluation of Digital Technology Intervention for	[59]
	Improving Physical Activity and Eating Behaviour	
4	Strategies in language education to improve science student understanding during practicum in laboratory:	[60]
	Review and computational bibliometric analysis	
5	How language and technology can improve student learning quality in engineering? definition, factors for enhancing students' comprehension, and computational bibliometric analysis	[61]
6	Mapping of nanotechnology research in animal science: Scientometric analysis	[62]
7	Scientific research trends of flooding stress in plant science and agriculture subject areas (1962-2021)	[63]
8	Introducing ASEAN Journal of Science and Engineering: A bibliometric analysis study	[64]
9	A bibliometric analysis of chemical engineering research using VOSviewer and its correlation with Covid-19 pandemic condition	[40]
10	A bibliometric analysis of materials research in Indonesian journal using VOSviewer	[42]

11	Bibliometric analysis of engineering research using VOSviewer indexed by google scholar	[65]
12	Bibliometric computational mapping analysis of publications on mechanical engineering education using	[37]
	VOSviewer	
13	Research trend on the use of mercury in gold mining: Literature review and bibliometric analysis	[66]
14	Domestic waste (eggshells and banana peels particles) as sustainable and renewable resources for	[67]
	improving resin-based brakepad performance: Bibliometric literature review, techno-economic analysis,	
	dual-sized reinforcing experiments, to comparison with commercial product	
15	Bibliometric analysis of educational research in 2017 to 2021 using VOSviewer: Google scholar indexed	[46]
	research	
16	Corncob-derived sulfonated magnetic solid catalyst synthesis as heterogeneous catalyst in the esterification	n [68]
	of waste cooking oil and bibliometric analysis	
17	The compleat lextutor application tool for academic and technological lexical learning: Review and	[69]
	bibliometric approach	
18	Use of blockchain technology for the exchange and secure transmission of medical images in the cloud:	[70]
	Systematic review with bibliometric analysis	
19	Computational bibliometric analysis of research on science and Islam with VOSviewer: Scopus database in	[71]
	2012 to 2022	
20	Digital transformation in special needs education: Computational bibliometrics	[72]

2. Methodology

The data for this study were obtained from articles published in journals indexed by Google Scholar. Google Scholar was chosen as the data source in this study because it is open source and contains a wide range of scientific publications, including articles from indexed journals.

The research was carried out in several stages:

- i. collecting publication data using the Publish or Perish application
- ii. processing the bibliometric data of the articles obtained using the Microsoft Excel application
- iii. administering bibliometric computational mapping analysis of the publication data using the VOSviewer application
- iv. analysing the results of the computational mapping analysis [73,74].

The data of this study were collected in June 2023. An article search was carried out using the Publish or Perish application with the keywords "digital technology" OR "quality management" based on the title of the publication. The selected articles were published between 2003 and 2022. The articles that met the search criteria were then exported in two file formats, namely RIS Research Information Systems (RIS) format and comma-separated values (CSV) format. Bibliometric maps were then created using VOSviewer to visualize and evaluate the trends. The article data were mapped using VOSviewer in three mapping variants, namely network visualization, density visualization, and overlay visualization based on the network (co-citation) between existing articles. When creating the bibliometric maps, keywords had to appear at least three times to be included, resulting in 114 terms, and less relevant keywords were removed.

3. Results and Discussion

3.1 Publication Data Search Results

Based on data searches using the Publish or Perish Reference Manager application from the Google Scholar database, 779 articles that met the research criteria were obtained. The data obtained were in the form of article metadata consisting of author name, title, year, journal name,

publisher, number of citations, article links, and related URLs. Table 2 shows some examples of published data used in the VOSviewer analysis in this study. The data sample was from the top 21 articles with the highest number of citations. The number of citations of all articles used in this study was 77011. The number of citations per year was 3850.55. The number of citations per article was 98.86. The average author in the article used was 2.75. All articles had an average h-index of 141 and a g-index of 242.

Table 2	

Digital technology in quality management publication data

No	Authors	Title	Year	Cites	Refs
1	Kaynak	The relationship between total quality management	2003	3000	[75]
		practices and their effects on firm performance			
2	Ivanov <i>et al.,</i>	The impact of digital technology and Industry 4.0 on the	2019	1258	[76]
		ripple effect and supply chain risk analytics			
3	Kim <i>et al.,</i>	Relationship between quality management practices and	2012	962	[77]
		innovation			
4	Sadikoglu & Zehir	Investigating the effects of innovation and employee	2010	920	[78]
		performance on the relationship between total quality			
		management practices and firm performance: An			
		empirical study of Turkish firms			
5	Nair	Meta-analysis of the relationship between quality	2006	872	[79]
		management practices and firm performance—			
		implications for quality management theory development			
6	Kwon <i>et al.,</i>	Data quality management, data usage experience and	2014	858	[80]
		acquisition intention of big data analytics			
7	Robinson &	Defining the concept of supply chain quality management	2005	815	[81]
	Malhotra	and its relevance to academic and industrial practice			
8	Zu et al.,	The evolving theory of quality management: the role of	2008	790	[82]
		Six Sigma			
9	Wang et al.,	Total quality management, market orientation and hotel	2012	743	[83]
		performance: The moderating effects of external			
		environmental factors			
10	Prajogo & Sohal	The relationship between organization strategy, total	2006	733	[84]
		quality management (TQM), and organization			
	.	performance—the mediating role of TQM			[05]
11	Prajogo &	The relationship between total quality management	2005	/29	[85]
	McDermott	practices and organizational culture			[0.0]
12	Kaynak & Hartley	A replication and extension of quality management into	2008	706	[86]
	T 0 ///	the supply chain			[07]
13	Terlaak & King	The effect of certification with the ISO 9000 Quality	2006	696	[87]
		Management Standard: A signalling approach	2000	C74	[00]
14	Fotopoulos &	The impact of "soft" and "hard" I Qivi elements on quality	2009	6/1	[88]
15	Psomas	The relationships between exemplational sulture total	2011	COC	[00]
15	Balro <i>et al.,</i>	The relationships between organizational culture, total	2011	606	[89]
		quality management practices and operational			
10	lin at al	A structural equation model of supply shain quality	2005	F02	[00]
10	Lin et al.,	A structural equation model of supply chain quality	2005	583	[90]
17	Coonstillake et al	Understanding the role of land use in urban stormwater	2005	575	[01]
1/	Goonetilleke et al.,	understanding the role of land use in urban stormwater	2005	5/5	[91]
10	Lakhal at al	Quality management practices and their impact on	2006	E74	[02]
10	Lakiidi et ül.,	Quanty management practices and their impact on	2000	574	[92]
10	Wang & Hao	Air quality management in China: Issues, challenges, and	2012	567	[03]
1)		options	2012	507	[23]

20	Thai Hoang <i>et al.,</i>	The impact of total quality management on innovation: Findings from a developing country	2006	567	[94]
21	Vidon <i>et al.,</i>	Hot spots and hot moments in riparian zones: Potential for improved water quality management	2010	554	[95]

3.2 Development of Research on Digital Technology in Quality Management

Table 3 shows the number of research publications on digital quality management in journals indexed by Google Scholar between 2003 and 2008. From 2003 to 2008, the number of publications fluctuated between 17 and 26 per year. From 2009 to 2018, the number of publications fluctuated between 32 and 47 per year. From 2019 to 2022, there were further fluctuations, with the number of publications reaching 60 to 78 articles per year.

Table 3		
Research on digital technology in quality management		
Year of Publications	Number of Publications	
2003	26	
2004	22	
2005	23	
2006	17	
2007	17	
2008	22	
2009	34	
2010	35	
2011	33	
2012	32	
2013	33	
2014	47	
2015	40	
2016	39	
2017	45	
2018	47	
2019	63	
2020	78	
2021	66	
2022	60	
Total	779	
Average	38,95	

Figure 1 shows the development of research on digital technology in quality management over the last 20 years from 2003 to 2022. As shown in Figure 1, the development of research on digital technology in quality management fluctuates from year to year. In 2003, 26 relevant studies were published. In 2004, this number fell to 22, rose to 23 in 2005, and fell again to 17 in 2006 and 2007. In 2008, the number of publications increased to 22 and gradually increased each year, reaching a peak of 78 publications in 2020. After 2020, the number of publications decreased slightly to 66 in 2021 and 60 in 2022.



Fig. 1. Level of digital technology in quality management research

3.3 Visualization of Digital Technology in Quality Management Topic Area

Data were computer-mapped using VOSviewer. The mapping results showed that there were 96 items related to the use of digital technology in quality management. All items were successfully grouped into six clusters, each representing aspects related to the use of digital technology in quality management.

- i. Cluster 1 consisted of 22 items, shown in red. The items related to adoption, attitudes, benefits, challenges, change, covid, data quality management, development, digital technology, use of digital technology, education, college, information, pandemic, patients, perception, service, teaching, technology, time, university, and employment.
- ii. Cluster 2 consisted of 21 items, shown in green. The items related to analysis, approach, business, case study, certification, framework, hospital, implications, integration, ISO, management, QMS, quality, quality management, quality management standards, quality management systems, service quality management, supply chains, supply chain management, uncertainty, and water quality management.
- iii. Cluster 3 consisted of 19 items, shown in dark blue. The items related to corporate social responsibility, culture, empirical studies, entrepreneurial orientation, environmental management, enterprise performance, impact, innovation, leadership, mediating effect, mediating role, medium-sized enterprises, organizational culture, organizational performance, performance, quality management practices, small and medium-sized enterprises, and total quality management.
- iv. Cluster 4 consisted of 15 items marked in yellow. The items related to applications, construction industry, critical factors, critical success factors, customers, effectiveness, universities, importance, quality management research, quality management tools, strategies, techniques, tools, total quality management implementation, and TQM.
- v. Cluster 5 consisted of 11 items, marked in purple. The items related to company, empirical research, industry, knowledge management, operational performance, organization, practice, quality performance, sigma, total productive maintenance, and total and quality management practices.

vi. Cluster 6 consisted of 8 items, shown in light blue. These items related to customer satisfaction, evidence, factors, innovation performance, manufacturing, opportunities, SCQM, and supply chain quality management.

Each cluster in the visualization shows the relationship between terms. Each term is marked by a coloured circle. The size of the label circle indicates the frequency the term appears in the title and abstract; therefore, the larger the circle size, the more often the term is found [40,73]. This study analysed three types of mapping visualization, namely network visualization (Figure 2), density visualization (Figure 3), and overlay visualization (Figure 4).

Figure 2 shows the relationship between terms related to the research topic 'digital technology for quality management' in an interconnected network. The clusters seen in the network visualization indicate that research on 'digital technology for quality management' could be divided into four areas. First, the term "quality management" belonged to Cluster 2, with a total of 91 links, a total link strength of 1695, and 530 related events (see Figure 5). Second, the term "total quality management" belonged to Cluster 3, with a total of 84 links, a total link strength of 1386, and 309 related events (see Figure 6). Third, the term "quality management system" belonged to Cluster 2, with a total of 61 links, a total link strength of 425, and 121 related events (see Figure 7). Fourth, the term "digital technology" belonged to Cluster 1, with a total of 53 links, a total link strength of 551, and 251 related events (see Figure 8).



Fig. 2. Network visualization of digital technology and quality management keyword

Figure 3 shows the density visualization, which shows the extent to which a term appears in the research. This density visualization uses a lighter yellow colour scale and a larger diameter circle label to indicate how often the term appears [40,42,96]. This provides an idea of how much research has been conducted on these terms. If a term has a colour that fades closer to the background colour, it indicates that there is relatively little research on the term. From Figure 3, it concludes that terms such as 'quality management', 'total quality management', 'digital technology', and 'quality management system' have a high number of studies. It implies that many studies have been conducted on these terms, indicating the high interest and relevance of research in these areas.



Fig. 3. Density visualization of digital technology and quality management keyword

Figure 4 shows an overlay visualization from a study on "digital technology in quality management". Overlay visualization shows recent developments in terms of this topic [40,42,73]. More specifically, in Figure 9, we can see that research on digital technology and quality management was mainly conducted during the 2017–2018 period. This shows that the term 'quality management' has been popular in research for quite a long time. Therefore, it is easy to conduct research on quality management.



Fig. 4. Overlay visualization of digital technology and quality management keyword

Figure 5 illustrates the network of relationships between "quality management" and various related terms. In the figure, "quality management" is related to terms critical success factors, higher education institutions, quality management research, education, applications, customers, engineering, total quality management, knowledge management, total quality management practice, empirical investigation, organizational performance, performance, corporate social responsibility, environmental management, corporate performance, evidence, innovation performance, management, supply chain quality management, integration, supply chain management, accreditation, supply chain, change, digital technology, technology, adoption, and quality. Overall, this network of relationships reflects the complexity and importance of quality management in different aspects and organizational contexts.



Fig. 5. Network visualization of quality management term

Figure 6 illustrates the network of relationships between the term "total quality management" and several existing terms. These terms include quality management, TQM, Sigma, total quality management implementation, critical factors, critical success factors, higher education institutions, techniques, customers, applications, tools, higher education, education, benefits, services, attitudes, time, covid, costs, quality performance, empirical investigation, total quality management practices, knowledge management, organizational performance, entrepreneurial orientation, mediating role, performance, corporate social responsibility, medium-sized enterprises, corporate performance, business, SMEs, innovation performance, evidence, management, hospitals, manufacturing, supply chain management, supply chain, and implications.



Fig. 6. Network visualization of total quality management term

Figure 7 illustrates the network of relationships between the term "digital technology" and other related terms. The terms associated with 'digital technology' include customer, application, tool, university, college, technology, adoption, information, change, use of digital technology, culture, strategy, factor, organizational performance, customer satisfaction, mediating role, SME, performance, business, quality, management, integration, supply management, supply chain, implication, covid, attitude, perception, benefit, and challenge.



Fig. 7. Network visualization of quality management system term

Figure 8 shows the network of relationships between the term "quality management system" and other related terms, including quality management, total quality management, construction industry, critical factors, tools, effectiveness, universities, technology, services, costs, information, hospitals, certification, supply chain, certification, integration, evidence, management, business, SMEs, medium-sized enterprises, SMEs, and organizational performance.



Fig. 8. Network visualization of digital technology term

Figure 9 shows that digital technology has little connection to other areas. Based on the mapping, there were only 53 links for digital technology. This is different from the fields of quality management, total quality management, and quality management systems, which have a high level of relevance and are often linked to other terms. Therefore, it indicates that the field of digital technology has a great potential for further research and links with other fields. More in-depth research in this area could have a greater impact on the future innovation and knowledge development.



Fig. 9. Overlay visualization of digital technology term from 2017 to 2018

4. Conclusions

The purpose of this study was to analyse the computational mapping of bibliometric data in research articles focusing on the use of digital technology in quality management. This study used the publication theme "digital technology in quality management" and retrieved articles from the

Google Scholar database using Publish or Perish application. The data used in this study were the article titles and abstracts. The search results revealed 779 relevant articles published between 2003 and 2022. This study showed that research on the use of digital technology in quality management tended to fluctuate. This trend peaked in 2020, with 78 publications. The results of this study suggest that there is still a considerable scope for research on quality management and related topics.

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