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Article

Past, Present, and Future of Service Quality in Marketing

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Abstract: Service quality has been one of the most significant concepts in marketing literature over the last two decades, empirically linked with customer satisfaction and long-term sustainability for businesses. The purpose of this paper is to provide an extensive review of the evolution of marketing-related articles in service quality and development. The review synthesis has shown that the Grönroos and SERVQUAL were some of the earliest service quality models to broaden intangibles within services and homogenise user experience outcomes between industries. Service quality research has evolved with technological evolution and digitalisation, which has changed customer experience parameters and created new dimensions. New-age digital trends dictate high-quality services based on personalisation, customisation habits, and the advent of artificial intelligence (AI) and machine learning. Customer preferences and loyalty have more to do with sustainability and ethical considerations. The service quality concept implications include the drivers of value co-creation and which emerging technologies could inform how services are delivered to customers. The review also highlights some challenges and opportunities for service quality research, including new frontiers that consider the interaction between humans and machines and social infrastructure and physical environment contexts in which services are delivered. To address the issue of the lack of an integrated perspective, this study utilises findings from the literature, particularly those emphasising human-AI interactions. The study's implication is to provide a more comprehensive theoretical framework of service quality and to synthesise findings from various espoused positions, thereby offering a level of leverage for service-level strategy implementation by practitioners in dynamic market environments.

Keywords: service quality; SERVQUAL; digital services; artificial intelligence; personalisation; sustainability; customer experience

1. Introduction

Service quality is a crucial component in marketing theory and practice. It is widely recognised as essential for satisfactory consumer relationships and sustainable business. The extent to which a service meets the expectations of its users is essential for attracting customers and advancing competitiveness [1]. Much of what is known today comes from early studies defining the components of service quality and frameworks to measure service delivery in different industries [2,3]. Although the traditional service quality models have provided significant insights into consumer perceptions, rapid technological changes and changing consumer needs challenge the relevance of these conceptualisations. As services become more digitally transformed, driven by artificial intelligence (AI) and personalisation technologies, the way customers interact with services is being revolutionised, which calls for a re-examination of traditional service quality models [4].

The evolution to be digital also includes real-time responsiveness and the AI-driven capabilities of digitally delivered services. Additionally, increasing attention to sustainability intensifies another aspect of service quality: today's customers increasingly appreciate environmentally friendly and socially responsible providers [5]. The changing landscape of business and industry provides challenges and opportunities for businesses to stay at the top of their game, combining technology with sustainability and providing a high standard of service [6]. Hence, this paper aims to comprehensively review the past, present, and future of service quality in marketing. Drawing on integrating findings across the related and current literature, this study contributes to a more comprehensive theoretical approach to service quality. This offers managerial implications for developing tailored service quality strategies suitable for environments where markets constantly evolve.

2. Theoretical Background

Service quality research has grown exponentially over the last two decades [7]. Service quality is the foundation for many companies' success, accounting for a large proportion of a firm's value. Customer satisfaction and quality of service are considered cornerstones of marketing philosophy, and many scholars and executives believe that high service quality provides a company with a competitive advantage and, ultimately, financial success [1,8–10]. Rather than any physical product, services are experiences perceived by customers, performed and not owned. Services are the activities, benefits, and satisfaction offered for sale and do not result in the ownership of anything. As such, customers perform service quality evaluations. As customer expectations in the service industry increased, companies responded. These companies are accelerating their services to users, developing services tailored to customers, and partnering with customers to develop unique service concepts [5,9]. The landscape of marketing has dramatically shifted with the advent of the Internet. Many companies have transformed their marketing practices to engage customers. Organisations receive services and value high-quality services to create customer experiences. Future research on customer satisfaction, complaints, loyalty, and intentions, as well as the applications of services, are areas to be explored in service quality in the evolving marketing field [1,11–13].

With the growth of the service economy during the late 1980s and the recognition that services needed to be marketed with strategies other than tangible goods, the concept of service quality first gained prominence. The service quality models by Grönroos (1984) and the SERVQUAL scale were among the early frameworks to recognise a service's subtle or intangible qualities, focusing on dimensions such as tangibility, assurance, reliability, responsiveness, and empathy [3]. These seminal models, widely read and adopted by academia and industry, lay the basis for service quality, which monetises customer interactions for service firms.

Introducing digital platforms and artificial intelligence creates a new frontier for what constitutes a good service. Contemporary consumers expect frictionless, tailored, and timely experiences that meet ever-evolving expectations, making it vital for service providers to constantly evolve and iterate on their quality standards [14]. In addition, in many industries, such as financial services, healthcare, and hospitality, the influence of service quality on brand reputation, consumer confidence, and trust has been re-energised. The impacts of these changes on the future design of academic research on service quality, driven by technological advances (big data, IoT, AI), sustainability, and co-creation or shared value, are yet to emerge. Rising themes, including service innovation driven by AI, the sustainable delivery of services, and the evaluation of service quality within hybrid ecosystems, indicate that incumbent methodologies are likely to fall short. Researchers are increasingly exploring new perspectives beyond the traditional static view of services, demonstrating the interaction between human and machine interactions and considering social and environmental contexts in service views.

The central challenge in the study of service quality is assessing whether and to what extent service organisations and their employees deliver service quality promised through various forms of persuasive communication. The definitions and concepts by prior scholars [10,15,16] show that service quality measures how well the delivered service level matches customer expectations. In this

definition, 'customer' refers to internal and external clients, and 'service level' refers to the menu of items a service provider offers clients. Service quality is an evaluative judgment of what is offered, and service expectations must be assessed. Ideally, a service provider must concentrate on meeting and possibly exceeding the most critical expectations to drive consumer satisfaction and loyalty [15,17].

3. Methodology

This review paper employs a systematic approach to synthesise literature on the past, present, and future of service quality in marketing. The methodology was structured and organised according to the PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) framework [18], which led to a transparent interlacing of the current literature on service quality in marketing. This section describes these studies' systematic identification and examination (Figure 1).

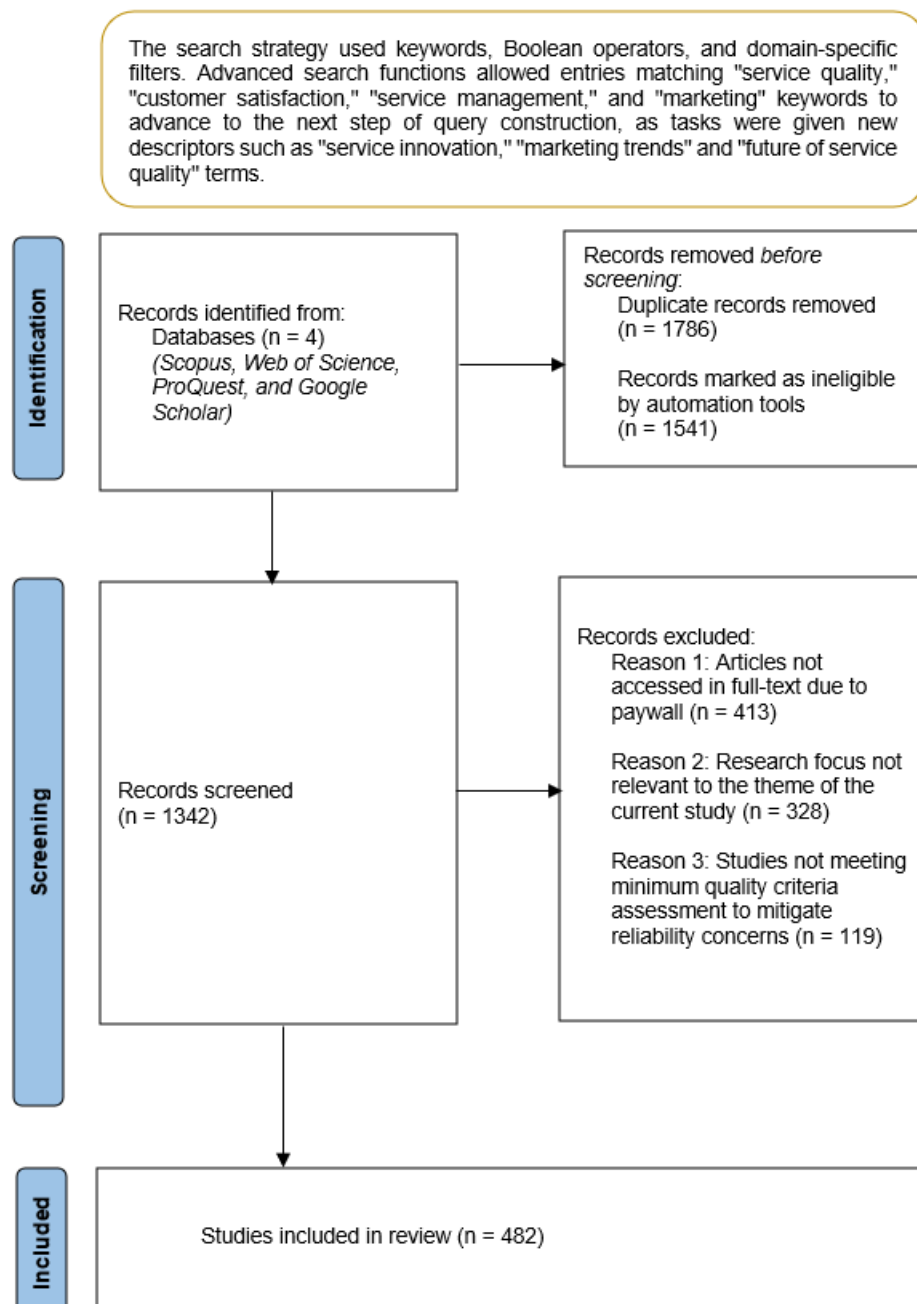


Figure 1. The adapted PRISMA protocol. Source: Authors' computation following the PRISMA protocol (2024).

3.1. Literature Search Strategy

A comprehensive literature search strategy was developed to retrieve peer-reviewed academic research on service quality in marketing [19]. The search databases used for this study were Scopus (2,726), Web of Science (827), ProQuest (182), and Google Scholar (934), totalling 4669 in the initial search record. The search strategy used keywords, Boolean operators, and domain-specific filters. Advanced search functions allowed entries matching "service quality," "customer satisfaction," "service management," and "marketing" keywords to advance to the next step of query construction, as tasks were given new descriptors such as "service innovation," "marketing trends" and "future of service quality" terms. The following strategies were employed, in particular for the timespan.

Past: "historical trends in service quality", "evolution of service quality frameworks".

Present: "existing service models," "customer experiences and satisfaction," "service quality in digital marketing."

Future: "emerging new service quality paradigms", "AI in service quality", "future directions service quality challenges".

In addition, manual searches were performed using reference lists of key articles in the field of marketing to ensure that seminal work was not missed. Selection criteria Documents were retrieved using predetermined inclusion and exclusion criteria. The inclusion criteria were marketing domain-focused peer-reviewed research journal articles, book chapters, and conference proceedings for service quality without a time span to capture a holistic picture of service quality's past, present, and future in marketing. Service quality studies not from marketing and reviewed research published in languages other than English were excluded. This methodology was designed to maintain the review within the limits of high-quality sources that add value to theoretical and practical ideas.

3.2. Identification of Due Articles

In all the initial searches, 4,669 articles were agreed upon. However, 1,342 articles were screened after removing duplicates using the titles and abstracts. Three independent reviewers screened articles to reduce bias. In cases of discrepancies in selection, the issue was resolved through discussion and consensus. Furthermore, a record of 860 was excluded based on three-fold reasons: firstly, articles not accessed in full-text due to paywall (n = 413); secondly, study focus not relevant to the theme of the current study (n = 328); lastly, studies not meeting minimum quality criteria assessment to mitigate reliability concerns (n = 119).

3.3. Data Extraction and Synthesis

A data extraction sheet was created to extract essential information for the selected studies, including author(s), publication year, research theme, methodology, and main results. Based on this review, the following three main categories were defined: historical development of service quality research, current state of service quality research, and future directions with studies on service quality. The selected studies were thematically analysed for recurring patterns and gaps and to identify emerging themes in the literature.

4. Results and Discussion

This section presents the findings of this systematic literature review of the past, present, and future of service quality in marketing. Service quality is an essential concept in the marketing literature because of its linkage with customer satisfaction and business sustainability.

4.1. Bibliometric Corpus Performance

The review analysed a total of 2,726 service quality in marketing articles in Business, Management and Accounting, and social sciences subject areas published between 1984 and 2024 (41 years) in the Scopus database. The findings of this bibliometric corpus analysis show the trend in publication performance of the articles on service quality in marketing. The review period is

segmented into four periods that cover a decade in each period (1984-1993, 1994-2003, 2004-2013, 2014-2024); see Figure 2.

The first ten years (1984-1993) witnessed the publication of 52 service quality in marketing articles only, which shows that service quality in marketing as a domain had a slow growth trend in the initial years. The next ten years (1994-2003) saw an exponential increase in the number of publications ($n = 382$), which coincided with the start of global trade developments in creating the largest free-trade zones, which shaped and strengthened trade relations between the United States, Canada, and Mexico, thus, service quality facilitated through global trade developments.

The ten-year period between 2004 and 2013, observed a drastic increase in service quality publications related to marketing ($n = 809$). This period coincides with the technological advancement (digital technology and social media) period that saw the birth of social media platforms such as Facebook, Twitter (X), and YouTube, thus indicating that digital technology and social media facilitated and accelerated the growth of service quality marketing research articles.

Finally, in recent years, an eleven-year period (2014 -2024), the field of service quality in marketing has reached an astonishing peak of publication articles even before 2024 ends ($n = 1483$, 2024 is poised to be the most productive year just four publications away from outperforming the year 2023). This period continues to witness the prominence of digital transformation. The most prominent ones are the rapid advancements in AI, quantum computing, data science, and the increased adoption of mobile technologies and analytics in service quality. These digital changes continue transforming business models, transcending communication methods most efficiently and effectively, and daily life. The development of AI has led to exponential growth in the publication of articles on service quality in marketing, viewed as an integration of AI in service quality delivery.

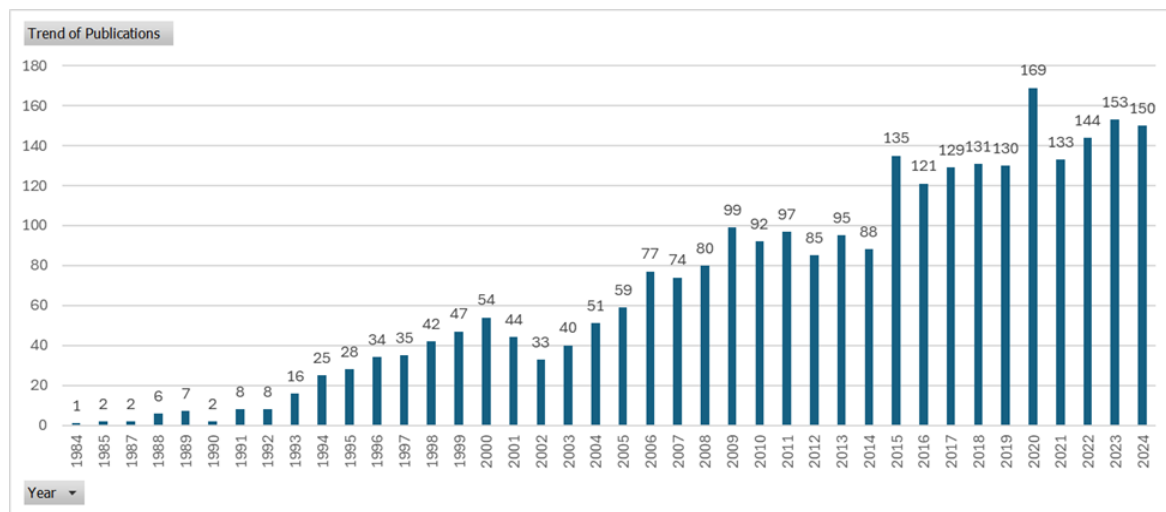


Figure 2. Year-wise publication trend of service quality articles. Source: Authors' computation from Scopus extracts (2024).

4.1. Evolution of Service Quality

Service quality has experienced a three-phased evolution, each driven by key milestones in theory and practice. The basic concepts started emerging in the earlier phase, and how a customer would define/perceive their expectations was understood. Prior to the formation of robust models and frameworks by pioneers in the field, these served as tools which could help businesses not only think about but also measure their service quality. During this time frame, the development of deducted theories such as SERVQUAL offered a far more methodical way of measuring service performance through dimensions [10,19,20].

Service quality evolved from a periphery concept and has moved more into the marketing mainstream. Organisations started understanding the importance of customer experience in gaining competitive advantage and sustaining customer loyalty [6]. It helped progress service quality

principles to a strategic level woven into other business strategies such as product development, customer relationship management and brand positioning. The digital era has further revolutionised the world of service excellence by presenting a pact of challenges and potential prospects. E-commerce, social media, and mobile technologies threatened to leave the legacy service quality paradigms behind as new tech-savvy consumers expected more from the firms they did business with [22]. Throughout this time, omnichannel service provision, real-time feedback loops, and data-driven personalisation have arisen to enrich customer experience within an ever more connected world [22–25].

Figure 3 exhibits the key historical evolution of service quality from early concepts and theories, service quality as an emerging key marketing concept, and service quality in the digital age.

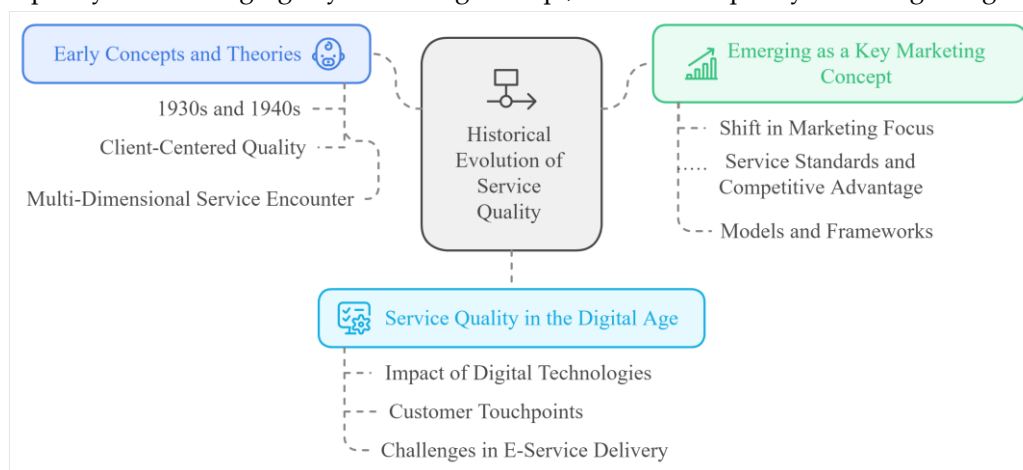


Figure 3. Historical evolution of service quality. Source: Authors' computation (2024).

4.1.1. Early Concepts and Theories

In the 1930s and the 1940s, little importance was attached to these services. From the beginning of the present chapter, this study stresses that earlier researchers should indicate the origins of the current knowledge. These researchers have focused on the service process and outcomes. The key concepts were already central to analysing several important theoretical contributions. The first significant achievement of service quality was the concept of quality according to the client [2]. It focuses on customer expectations. Value production/retrieval is user-centered, user-defined, and custom-configured. Co-production in service meaning and management has also been emphasised. The external business relationship between the business company, provider, or deliverer of services, and the end customer was studied. Quality is defined as fitness for use based on the client's wants and needs [26,27]. The two significant streams emerged: firstly, the definition of external quality as perceived by the customer, satisfaction or dissatisfaction with the service, and the definition of internal quality by the firm. A second concept, the multidimensional feature of the service encounter, emerged from these first models [10,19,20].

4.1.2. Emerging as a Key Marketing Concept

Since marketing as a managerial philosophy has evolved, the focus of marketing theory has shifted from merely focusing on the exchange process and goods transferred through this process to examining consumers' needs, perceptions, preferences, and complaints [28–31].., 2020). The reason for this shift lies in recognising the changing dynamics of marketplaces. Several changes in the dynamics characterising these marketplaces gave us impetus to this awakening. It was realised that a firm's service standards would determine its future competitive advantage. The recognition of securing a larger market share and customer loyalty increases the sway of the quality of service [22–25,32]. Different sectors, irrespective of their intrinsic comparability, began to attach importance to the quality of the services provided to sustain customer patronage. The paradigm shifts from selling products to selling services to obtain a competitive edge, owing to its origins in prevailing market

conditions and the dynamics of the demand draft [1,10,33,34]. This changing scenario has resulted in several models and frameworks for evaluating service quality. Using these models, various service providers could make forays into the identified 'zones of tolerance' and shape deliverables accordingly [9,10,35–37]. Service quality started to be treated as more than a mere undefined and vague construct and became a disciplined stream of study, practice, and education within marketing. Service quality grew in the seventies to a recognised canon that was more applicable to some businesses and less applicable to others. Over the past four decades, as many as ten business sectors have been identified to acknowledge the premium of service delivery excellence [38–40].

4.1.3. Service Quality in the Digital Age

Technology has undoubtedly transformed services and, consequently, modern marketing. Online venues, such as Internet gaming communities, professional networking services, and social interactions, have dispersed such a large portion of the total market activity that these offerings have become classified as services [41–44]. This has a profound impact because an organisation's service offerings now reach far beyond business transactions within the traditional marketplace, permanently altering how customers perceive a company's service offerings. Digital technologies have embedded the composition of any business's marketing offerings within customer experiences, whether directly experienced or indirectly viewed, shared, reviewed, or discussed [12,45–47]. Investments in technology have spawned myriad ways to enhance the service quality of their offerings. One way is to interconnect services to create customer ecosystems, where joined offerings eliminate competitors while providing customers with new and superior service experiences [48–50]. The explosive adoption of online networks for business and personal use has significantly augmented the number of customer touchpoints, increasing the capability to deliver services, enabling transactions, arousing emotions, creating memories, and invigorating brands [51–53]. Consequently, customers' expectations for encountering service quality in service offerings have evolved.

Customers in the digital age expect personal service and empathy, and request prospective housebound flexible digital shopping experiences and attentive customer support service [55–57]. Customers continue to explore these digital experiences and exploit tools to enact and realise desired changes, which they can appreciate and enjoy as improved service quality obtained from their e-transactions. Given the constraints imposed by digital conversion, delivering e-services continues to emerge as a challenge that requires more specific guidelines for meeting the explosive changes in e-customer expectations [58–60]. However, business executives and scholars are confronted with the daunting task of specifying how a business can excel at delivering higher-priced e-services to its customers, causing a trending need for empirical e-service research. Only by carefully determining new methods to generate, build, and communicate enhanced service quality within digital service delivery can any business exist and excel [9,10,15,60,61]. In an onscreen world full of extraordinary services, successful operations may require businesses to learn how to demonstrate an understanding of what goes on in service encounters wholly hidden from view [62–64]. Businesses attempt to extend their presence into nonphysical environments, raising a likewise symmetrical demand to infer practical understandings for omnichannel, multi-software, multi-world, nearly invisible encounters where "tactility," "ambience," "personal space," "seasonal accoutrements," "sight," "sound," "scent," and "touch" are words with only transposed material references for in-store services [41,65–67].

- Impact of technology on service delivery

Technology is transforming how services are delivered and accessed by customers. For example, robotics and automation technologies are revolutionising operational and repetitive work, such as in warehouses [1,12,41,61,68]. Additionally, artificial intelligence technologies are increasingly being applied to automate customer communication by replacing humans with chatbots to answer questions, help customers, and fix problems, inter alia [69, [70–72]. Furthermore, the increasing availability of data and big data analytics is used to personalise experiences in many ways. Telecommunications companies personalise bundles of services based on customer usage and shopping inclinations [73–76]. Location-based services track customers' daily store activities and

provide additional product recommendations. Customer web traffic patterns are constantly tracked to provide accurate predictions and diagnostics [77–80].

The increasing prevalence of mobile technology has transformed customer engagement with firms and access services. These technologies support and enable multichannel service delivery, including web, virtual, and interactive environments. Firms quickly adopt such technologies because of the potential benefits associated with their usage [61,81,82]. For a firm, technologies allow for improvements in efficiency, convenience of access, cost savings, increased sales, and the potential to reach otherwise untapped markets. While firms are confident in the potential benefits of investing in new technologies and continue to do so, it should be noted that technology is not an end in itself but rather a means to an end [41,83,84]. A thorough analysis should be conducted on the uses and impacts of these technologies, balanced with what they mean for customer experience, service quality, and satisfaction. It is also important to note that as the use of technology increases, so does the plethora of potential problems for firms [9,10,15,59,81].

Data breaches, identity theft, slowing Internet speeds, increased costs of goods and services, and healthcare issues surrounding the use of mobile technologies have all been widely reported in the literature. These issues impact personal well-being, psychological trust, and power, which are challenges that firms should recognise and act upon in their service quality improvements [85,86]. As technology continues to expand, delivering services in increasingly high-tech environments means striking the right balance between a high level of service automation and high interdependence with the few human staff members and processes that are part of the service delivery process, particularly as customers increasingly expect more personalised service interaction that melds both high technologies and human touch [87–89].

- Online reviews and reputation management

Now that consumers often rely on non-price dimensions of product value, firms must provide credible signals of the quality of their goods and services to consumers. Firms accomplish this online by curating consumer expertise and making it transparent through reputational management. Businesses significantly impact consumer sentiment by facilitating, responding to, and leveraging consumer-generated content online [91–93]. Reputation is seen as one determinant of the trustworthiness of a recommendation, as it quells the risk of disconfirmation through transparency, both in solicited and organic online reviews [93–95]. Managing one's digital presence proactively rather than reactively can ensure that service quality is never less than excellent, as is evident by the inter-organisational culture and employees' roles as active contributors to an integrated service quality strategy that focuses on incorporating consumer feedback into managerial decisions [96–98].

Firms now use reputation management to target consumers to differentiate a top-line product or service. One recent category of trust antecedents' online information about a company emphasises online review correspondence. Service promises are made and updated through timely customer review responses, which is the end product of a total responsiveness strategy [99–102]. However, unflattering customer communication can have adverse effects on firms. Still, tools to mitigate negative word of mouth are emergent if any strategy can be effective. Three-quarters of consumers would consider a management response to a poor review before making a reservation [33,103,104].

4.2. Current Trends and Challenges in Service Quality

Customers demand even more, and the trends from the past decade appear to be a balancing act of providing both personal and individual services while simultaneously creating highly standardised service procedures. Recent reports reveal that many respondents were willing to shift brands to find a better experience and that managing and exceeding customer expectations is paramount [12,105,106]. The internet and modern technologies have also provided firms with myriad new ways to gather and collect information. Customer intelligence is becoming more widespread, and self-service capacities are growing. One exciting trend is the rise of luxury and sales houses based on exclusivity instead of value-based competition, which have flourished alongside discounting strategies [107,108]. Responsible marketing is growing in importance, and new standards associated with responsibility are being established, leading to what has been termed the ecology of service. The

'where' in 'where does a firm compete' refers not merely to geographic locations as much as it does to social and cultural aspects of customers, acknowledging distinctiveness shown up as products [109–111]. Quality of service distinguishes the authenticity of the source product. Operational service systems must also consider social and cultural influences in providing operational services distinctly different from the service context untouched by the surrounding culture. Services are also becoming more homogeneous, requiring an innovative company to remain agile under these circumstances [112,113], 114]. The figure below summarises the current trends and challenges in marketing and maintaining service quality.

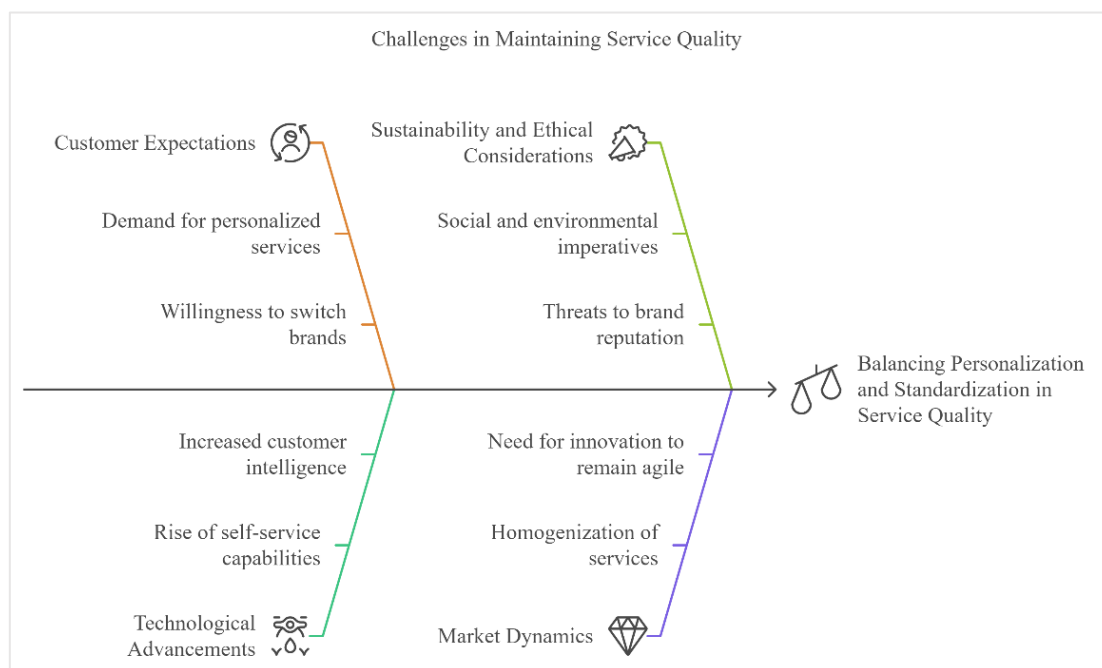


Figure 3. Current trends and challenges in service quality. Source: Authors' computation from literature (2024).

4.2.1. Personalisation and Customisation

Personalisation and Customisation: People increasingly demand personalised services tailored to their needs and wants regarding their products and experiences. Businesses can personalise or even customise their services in response to this development. Personalisation implies making efficient use of individual data to guide choices by offering potentially desirable alternatives at the right time [115–118]. Mass customisation is the firm's capability to provide unique goods and services to different customers at the same price as standardised offerings with mass-equivalent customisation differentiation and production efficiency. In their extreme form, both strategies contribute to adaptive systems for which future user or consumer demand is anticipated and prepared [119,120]. At the same time, they also show how contestable marketing has become because both strategies to adapt to consumers' preferences aim at binding them closer to the firm in the future through the present marketing strategy [121–123].

There are several different ways in which services can be personalised or customised. On the consumer side, services can be either passively or actively adapted. When services are passively adapted, generic offerings are created for multiple segments and are adjusted for individual customers during delivery. Trailer parks classify clients using coded car models for service guarantees, offering discounts to favoured customers while denying others [124–126]. When services are actively adapted, customers choose a menu of options or amendments from service tangibles or extras.

4.2.2. Sustainability and Ethical Considerations

Focusing on sustainability and ethical considerations is rapidly becoming a dominant market imperative for today's service-oriented businesses. This is more relevant than service quality-based marketing applications [123,127,128]. Service is situated within the broader sustainability agenda owing to the increasing recognition of the role of services in contributing to social and environmental imperatives, along with related economic factors. As service organisations play a vital role in the overall social framework, attention is increasingly directed toward social sustainability and the contributions of service organisations [129–131]. Consumers actively seek social criteria in their assessments of large profit-making enterprises and are becoming more vocal about sustainability matters [132,133].

In the age of sustainability and ethics, companies and organisations are increasingly experiencing threats to brand reputation owing to allegations of exploitation, secrecy, or lack of accountability [134–137]. This is exacerbated by the growing media and public inquiries into major corporate entities, both of which have an ongoing motivation to question, expose, and especially hold organisations accountable for their claims and social roles. Thus, for several reasons, many consider the link between sustainability, operational qualifications, reputation management, and quality management to be progressively relevant to modern organisations' decisions and strategic directions [138,139]. Ethical service delivery is mainly linked to customer trust and customer-perceived service quality. Evidence suggests that their societal roles ethically and socially impact service providers [141].

Nonetheless, there are ongoing dilemmas associated with commercial organisations seeking to become providers of sustainable services due to conflicts with profit-making motives. Some industries have well-publicised examples of best practices in these areas [141,142]. For instance, a hotel might publicise the integrated goat's milk soap provided in all guest amenities, whereas a community bank or credit union may advertise access to alternative currency. Both examples portray benefits in service quality targets while giving the impression that organisations are committed to societal advancement [143,144]. Observing the potential collective social benefits of organisations motivated by sustainability and ethical concerns provides significant scope for further research. This has great potential because of the interlinked scope and framework of sustainability and ethical considerations in service transactions and quality [145–147]. A correlation was observed between a company's environmental and social responsibility practices and trust in a brand. Links have also been revealed between consumer knowledge of the ethicality of products and consumer trust in the ethical label [148,149]. Similarly, corporate social responsibility is linked to customer trust and brand reputation, particularly in the promotion of service delivery. Branding, relationship marketing, and strategic marketing literature describe these features as reputation and its influence on consumer advocacy, brand trust, customer satisfaction, and loyalty [100,150].

4.3. *Future Directions in Service Quality*

Service quality continues to improve as an area of research and customer experience accumulates. Many critical areas are yet to be explored extensively. This section discusses two broad classes of potentially critical areas. The first class consists of areas that directly touch on the respective strengths and weaknesses of the methodologies, which focus on artificial intelligence and machine learning. The ever-increasing spread of these tools in the hands of business practitioners suggests a growing need to bring additional insights and rigour to their applications. The second set of areas is more guiding, focusing on what is needed theoretically and managerial implications for advancing service quality to maturity. Therefore, discussing augmented reality and virtual reality in service provision is inevitable. The areas discussed here can aid in preserving the utility, parsimony, and empirical relevance associated with first-generation work in this vital marketing research sector. A successful research project requires an initial theory or model that explains how the primary constructs and variables are interrelated within a hypothetical system. Subsequent empirical testing of relationship research is needed to confirm, modify, or reject the theory and to contribute new

knowledge about the subject matter to marketing and the marketing research community. The figure below depicts future service quality directions discussed in the subsequent sections.

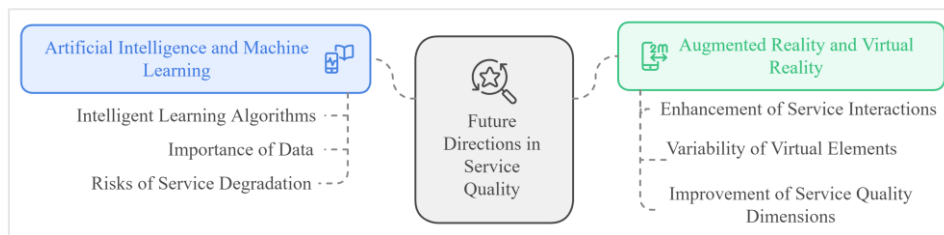


Figure 4. Future directions in service quality. Source: Authors' computation from literature (2024).

4.3.1. Artificial Intelligence and Machine Learning

The subsequent developments are also related to the future. This implies that service quality experts must learn from the rapid progress in artificial intelligence (AI) and machine learning (ML). These fields are devoted to understanding and producing highly intelligent behaviour, building software and machines that solve complex problems, carrying out complicated tasks, and acting visibly intelligently. Intelligent learning algorithms can observe and learn from experience with various tasks [151,152]. This study encourages the joining of many ML initiatives to develop more ingenious marketing theories and better methodologies in this field. Service quality is essential and foundational for marketing as an academic discipline, so marketing scholars cannot possibly be satisfied with repeated black-box solutions. Nonetheless, scientific knowledge is not static and should be replaced continually and systematically. One does not challenge AI if such an endeavour collides directly with fundamental organisational and human nature constraints that too many research initiatives seem to ignore [1,31,153,154]. However, without a doubt, AI and ML will significantly change; if not revolutionised, customer service and service interfaces are at large. However, the rapid spread of conversational marketing agents or bots in the service landscape bears the risk of increased service degradation and profound disillusionment, comparable to many overly optimistic chatbot attempts over the past decades [12,155,156].

4.3.2. Augmented Reality and Virtual Reality in Service Quality

Virtual reality (VR) and augmented reality (AR) are poised to change the portfolio of service offerings in various industries significantly [158], amidst the deployment of artificial intelligence, which continues to transform our daily lives. Both can be defined as different types of mediated reality platforms. AR supplements the physical by adding virtual elements, whereas VR substitutes the physical environment of business transactions by providing a fully immersive virtual environment [159,160]. Mobile AR applications, particularly smartphones, are widespread and visible, driving consumer interest. The high standards required by VR for professional exploitation in modern service industries are yet to be established, and questions remain about the degree of maturity of this technology. Customers are looking for instant solutions and the perception of excellent service quality, which VR and AR can help to achieve [10,120,160].

Both enable companies to vary the range and quality of the virtual elements they offer within the context of the underlying physical realm, whether to facilitate game-based city tours, provide real estate agents with 3D floor plans, or allow sports fans to watch football games from different angles. In-person service interactions can be enhanced, supported, or eliminated through VR and AR, thereby increasing important service quality dimensions, such as reliability, responsiveness, assurance, and empathy [157,161]. Accurate knowledge availability is expanded, allowing for a more manageable representation of complex ideas to sell more efficiently and have better-informed customers while offering users access to state-of-the-art visual communication technologies. Companies can present their fitted products as appealing commodities, which helps improve the confidence of their potential customers in both the brand and its associated tailor-made products. This promotion based on brand gestalt provides consumers with an improved sense of reliability,

and brands do not have to use irrational persuading claims, which may harm the emotional trust of eco-sensitive consumers [1,162,163].

5. Conclusions and Recommendations

This review paper traces the development of service quality found in the marketing literature, from traditional models like Grönroos and SERVQUAL measures used in the early days to modern multidimensional constructs driven by digitalisation and experience. Quality of service has evolved over time and expanded to include new dimensions driven by either technological advancements (e.g. service customisation) or changes in quality expectations concerning issues that traditional delivery perfection-tuning should encompass, like inclusion of AI-integrated-alternative touchpoints and social responsibility/sustainability. Future research should consider the three aspects of human-machine interaction, sustainability and value-co-creation logic at the heart of the service quality framework. The paper further contributes by illustrating how AR and VR can influence service delivery in the future while suggesting a more comprehensive value-creation approach for turbulent market conditions. The integrated lens of service quality could offer a better grasp of the complexity of service quality and meaningful strategic implications that scholars and business practitioners face while responding to threats and opportunities in an ever-competitive business environment.

5.1. Key Findings and Implications for Marketing Practice

This study provides valuable insights into past, present, and future marketing quality research. These findings show that the quest for excellent service delivery began several decades ago, and service quality has since become a determinant of customer satisfaction and loyalty. The results indicate that a trend towards further contextualisation and personalisation is emerging. Additionally, companies will become increasingly sustainable in the future. New management concepts reflect a society whose needs have changed compared with previous generations. Integrating new technologies into well-established service delivery progressively shapes customer experiences. Companies can further increase their service quality by providing digitally augmented services. The findings can guide companies' current and future service delivery strategies by focusing on integrating innovations and adapting to new customer needs.

Moreover, the findings can guide researchers in new areas of service quality research, thus fostering continuous improvements in service delivery. With the emergence of new technologies, an increasing trend in the service industry has focused on sustainability. Many companies are gradually promoting sustainability as the main feature of their service offerings, reflecting changing consumer preferences and an escalated need for sustainability in all areas of life. Sustainable thinking and socially responsible behaviour can add value to service quality and purchase decisions. The emergence of digital value creation suggests that integrating technology into service delivery as an indicator of excellent service quality is becoming increasingly important. This trend shows that researchers in recent years have shed light on how creative and innovative software can be used inside companies and organisations to develop co-creation with stakeholders to drive marketing and business outcomes. Overall, this study observes that service quality research in marketing has become highly diversified in research approaches, industries, regions, and potentially concerning subtopics. Given the emergence of new prospective customer behaviour, these dynamics may increasingly foster customer co-creation and competition in service quality supply across industries.

5.2. Limitations and Future Research Directions

This review provides a long-view analysis of academic research on service quality in marketing, from its origins as a framework for improving customer satisfaction to its ongoing status as a vital construct in customer experience. However, the review is balanced with a handful of potential limitations that should be addressed in future research, including its exclusive use of traditional service quality models (even though this might limit how theory can be generalised into technology-intensive sectors where other theoretical frameworks offer greater relevance). In addition,

heterogeneity in the definitions of quality and the scales for measuring service quality across studies hindered synthesis and could lead to bias and inconsistency. Another limitation is the deficiency of interdisciplinary considerations in this review, where research mainly from a marketing standpoint was considered, and contributions that might have emerged from other disciplines, such as operations management psychology or information systems, could provide deeper insights into an improved understanding of service quality. There were also issues with the ability to summarise the findings because of methodological diversity, from qualitative to empirical approaches, contributing to the robustness of the review's conclusion. Finally, changes in consumer needs and technological developments have occurred over the period considered and may cause earlier findings to be outdated. This limitation reduces the comparability of historical knowledge.

As such, future work could address these limitations by adopting new theoretical lenses from adjacent disciplines (e.g., technology adoption models, consumer behaviour theories, and service-dominant logic) to capture the changing nature of service quality in digital and hybrid contexts. There is also an opportunity to create new contextualised appropriate service quality models, which can be tuned to differences in customer expectations whilst recognising sector-specific dimensions and where the importance or constructs such as "real-time service quality" or 'technology-enabled service excellence. As service delivery is now more than ever a globalising activity, future research should focus on improving the understanding of how cultural, economic, and regulatory forces contribute to service quality perceptions from a cross-cultural and multi-regional perspective. Additionally, because AI and automation are redefining service encounters, future research could further investigate the interplay between humans and AI agents in services (e.g., new service quality dimensions such as transparency/trust in AI). Future research should evaluate how service quality perceptions evolve using longitudinal and experimental designs, especially in dynamic industries such as fintech, telehealth, and e-commerce. Furthermore, industry-specific protocols directed at digital services, healthcare, and education can clarify operational practices and differences in customer demands. In summary, future research could focus on the increasing importance of sustainability by investigating how environmental and social responsibility practices are reflected in service quality models that focus on contemporary consumer values and ethical considerations.

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