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Determinant of online shopping intention: Satisfaction as an intermediary

Suke¹

Management Department, Faculty of Economic and Business,
Universitas Dr. Soetomo, Indonesia¹

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Abstract

Conducted with a sample size of 120, the research employed structural equation modeling for analysis. The findings revealed several influential factors, including perceived trust, perceived value, perceived risk, and satisfaction, impacting behavioral intentions among Indonesian online shoppers. Notably, satisfaction emerged as a mediating variable in the relationship between perceived trust, perceived value, perceived risk, and behavioral intentions. The implications suggest that businesses and online retailers seeking to enhance customer satisfaction and drive desired behaviors should consider strategies aligned with these influential factors. However, it is crucial for both researchers and practitioners to acknowledge the study's limitations. Further research endeavors are encouraged to broaden and refine our understanding of consumer behavior in the Indonesian online shopping landscape.

Keywords: Behavior intention; perceived trust; perceived value; perceived risk; satisfaction

Introduction

The internet offers constant accessibility to a plethora of products, facilitating seamless transactions. Consequently, consumers face a multitude of options, necessitating a judicious approach in selecting shopping avenues. The dichotomy between online and offline shopping is influenced by various factors, as elucidated by [Alam \(2008\)](#). Parameters such as website design, reliability, customer service, and trust play pivotal roles in shaping online purchasing decisions. Similarly, [Assidiqi's \(2009\)](#) research underscores the significance of usability, interactivity, trustworthiness, aesthetics, and the marketing mix, with usability and aesthetics wielding substantial influence over online purchases of electronic goods.

The wealth of information available online makes internet membership highly advantageous, accessible throughout the day ([Engriani & Novaris, 2019](#)). This trend is on the rise in Indonesia ([Engriani & Novaris, 2019](#)). Online shopping memberships empower consumers with the flexibility to shop at their convenience, coupled with the added benefits of effortless product research and price comparisons ([Al-Debei, Akroush, & Ashouri, 2015](#)). Further insights on traditional information accessed online for technical communication can be gleaned from [Al-Debei, Akroush, and Ashouri \(2015\)](#). Regardless, the online system operates through the internet, utilizing e-commerce platforms, as elucidated by [Widyastuti, Hartini, and Artanti \(2020\)](#). Online purchases are not only free but also accessible 24/7 ([Widyastuti, Hartini, & Artanti, 2020](#)). The advent of the internet in Indonesia in the late 1990s facilitated widespread connectivity and created a thriving market. [Lasalle's \(2011\)](#) data supports the continued growth of Business-to-Customer (B2C) E-commerce in Indonesia.

[Baidoun and Salem's \(2023\)](#) study delves into the dynamics of the internet, emphasizing its ease of use and connectivity. The contents of websites contribute to online mileage generation while functioning through the internet. This number, available at 357 seconds, can be installed only with the PLS-SEM model, with 311 valid installations. Many individuals accessing the internet and affiliated sites experience positivity, although there is a dearth of available data. Conversely, risk perception exerts a weaker impact. This study underscores the imperative of nurturing trust to surmount obstacles in online shopping. In the COVID-19 era, individuals seek guidance on navigating the online generative network, with a strategic

¹E-mail: suke¹@unitomo.ac.id

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focus on social media. Despite the commonalities, diverse tasks abound in using desired online content for sharing among users (Baidoun & Salem, 2023).

Similarly, Tzavlopoulos et al. (2019) conducted research exploring various facets, such as customer satisfaction, loyalty, and business competitiveness. Utilizing factor analysis, regression analysis, and path analysis, they scrutinized the interconnectedness of perceived quality, value, satisfaction, risk, and customer loyalty. Their findings indicated that heightened quality correlated with increased perceived value, satisfaction, and loyalty, while concurrently diminishing perceived risk. Specific quality dimensions, including website usability, design, responsiveness, and security, positively impacted perceived value and satisfaction, thereby fostering customer loyalty (Tzavlopoulos et al., 2019).

In addition to the studies by Baidoun and Salem (2023), Tzavlopoulos et al. (2019), and Qalati et al. (2021) also delved into similar research. Their study explored the nexus between trust factors in online shopping and purchase intention. Investigating the relationships among perceived service quality, website quality, and reputation, with trust as a mediator and perceived risk as a moderator, the results demonstrated that perceived risk amplifies the connection between trust in online shopping and purchase intention, especially in high-risk situations. Trust also plays a mediating role in the associations between perceived service quality, website quality, reputation, and online purchase intention. This research emphasizes the crucial role of trust in mitigating perceived risk and bolstering customer loyalty, ultimately contributing to increased sales for online businesses (Qalati et al., 2021). This concept extends to online platforms, where factors such as website accessibility and ease of use can significantly influence consumer behavior (Engriani & Novaris, 2019).

However, unlike the studies by Baidoun and Salem (2023) and Qalati et al. (2021) does not explicitly incorporate satisfaction as a variable to be considered, despite Tzavlopoulos et al. (2019) identifying satisfaction as a promising factor. Therefore, this research positions the satisfaction variable as a mediating factor. Meanwhile, for a comprehensive comprehension of the determinants of consumer behavior in online platform-based purchases, including the roles of trust, value, and risk, this research aligns with Adnan's (2014) perspective. It is anticipated that this study will contribute expanded empirical evidence, particularly regarding the mediating role of consumer satisfaction in influencing online purchasing decisions.

Literature Review

Perceived Trust

Organizations utilizing the internet should adopt a patient approach, recognizing that immediate results may not be realistic. Encouraging customers to engage in online purchases requires a gradual development of trust through positive online experiences. Customers often initiate with small purchases and progressively move towards more substantial transactions as trust in the medium or the organization builds over time (Camp, 2001). Key dimensions of trust in online transactions, outlined by Camp (2001), encompass security, privacy, and reliability. While trust in the online mechanism was paramount in the early stages of internet commerce, the contemporary focus has shifted to customers needing substantial trust in the supplier rather than the specific online channel they use (Lee and Turban, 2001). Marketers face the challenge of establishing and maintaining customer trust, particularly in the supplier-customer relationship (Aladwani, 2001).

Bramall et al. (2004) categorize the determinants of trust in e-retailing into three areas: store-based, web site-based, and consumer-based. These categories, however, may not be entirely distinct from one another. Mukherjee and Nath (2003) propose that trust can lead to a commitment to a business relationship, which can be augmented by online facilities. In the online environment, customers have exposure to numerous organizations, enabling easy comparisons and exploration of various options. While customers may not remain loyal and may switch between different suppliers or have simultaneous commitments, achieving any level of commitment is a crucial initial step towards building a relationship, with trust serving as a foundational element for customers to commit to their first purchase.

Historically, product price has been a pivotal factor influencing customer choices, acting as an indicator of either the amount customers must pay for a product or the product's perceived quality (Mbete & Tanamal, 2020). In the realm of Internet shopping, product categories like tickets, books, and music CDs, categorized as "low touch" products, involve consistent quality across different vendors (Donato & Raimondo, 2021). This consistency allows customers to prioritize minimizing the price (Sivan & Zukarnain, 2021). The presence of Internet shopbots or comparison websites facilitates easy price comparison across different sellers. However, online shopping introduces uncertainty and risk due to the physical and temporal distance between the buyer and the seller, particularly concerning product delivery. This uncertainty can create a lack of trust in Internet vendors, recognized as a major obstacle to online transactions with specific vendors (Alzoubi et al., 2022). Other studies (Eneizan et al., 2020; Lăzăroi et

al., 2020) also underscore trust's significance in influencing customer decisions in Internet shopping.

Trust is acknowledged as a fundamental prerequisite for the success of e-commerce (Hoffman et al., 1999), with mobile commerce studies (Dogbe et al., 2019; El-Ebiary et al., 2021) emphasizing trust as the primary factor impacting e-commerce success. Despite recognizing the importance of both price and trust in online stores, there is a need for further exploration of the combined effect of these two factors on online purchase decisions. Internet vendors face a critical strategic decision, contemplating whether to compete primarily based on price or trust, given the ease with which customers can compare prices across different vendors.

Perceived Value

Perceived value, a pivotal outcome of marketing endeavors and a significant element in relationship marketing (Oh, 2003), has recently become a focal point for in-depth study among marketing researchers. Two primary perspectives exist in conceptualizing perceived value. The first approach considers it a construct consisting of two components: the benefits received (economic, social, and relational) and the sacrifices made (price, time, effort, risk, and convenience) by the customer (Dodds, Monroe, & Grewal, 1991; Oh, 2003).

Conversely, a more contemporary perspective views perceived value as a multidimensional construct, gaining popularity in recent research (Al-Jundi et al., 2019; Hernandez-Fernandez, 2019). This viewpoint addresses some limitations of the traditional approach, particularly its excessive focus on economic utility (Mergoni et al., 2022). Furthermore, the multidimensional approach aligns with new theoretical developments in consumer behavior that underscore the influence of emotions in purchasing and consumption habits.

Within the realm of tourism research, perceived value has garnered substantial attention. Some studies adopt the first approach (Shah et al., 2020), while others take a broader view, identifying five dimensions: quality, emotional response, monetary price, behavioral price, and reputation (Gadeikienė & Švarcaitė, 2021). Additional researchers such as Kim et al. (2021) and Kim & So (2023) consider brand, price, and risk as precursors to value formation in the restaurant industry. They find that satisfaction with leisure services is influenced by cognitive and affective evaluations, with the latter being more dominant.

Perceived Risk

Various past researchers have delved into the significance of attitudes toward adopting new technology and novel shopping environments, and empirical evidence substantiates the impact of these attitudes on consumer decisions (Gupta & Mukherjee, 2022). Additionally, personality emerges as a critical factor in the acceptance of technology-driven shopping environments, as individual differences significantly influence customer choices. Personal innovativeness and individual playfulness, for example, have been identified as factors significantly affecting the intention to use new technology and online shopping channels (Palash et al., 2022). Another crucial aspect is perceived risk, given that online shopping often involves higher levels of uncertainty compared to traditional brick-and-mortar stores (Chiu et al., 2009). Greater perceived risk tends to be associated with lower levels of trust (Liao et al., 2011).

This study adopts an integrated model based on personality traits, perceived risk, and technology acceptance to scrutinize their influences on online shopping behavior. Employing meta-analysis, a widely used statistical method for collecting and analyzing results from previous studies to synthesize findings, this approach was applied to determine the average effect size of independent variables on the dependent variable, following the methodology of Paul and Barari (2022) and Khanna et al., (2021). Given its relatively underutilized status in the context of electronic commerce, this study aims to bridge this gap in the existing literature.

According to Paul and Barari (2022), meta-analysis provides more comprehensive insights compared to individual studies by combining results from various settings, helping to average out errors present in each individual work. Many previous studies on online shopping behavior have presented fragmented constructs without integrating them into a cohesive framework. In this study, the researcher aims to address conflicting empirical findings that have emerged over the last two decades concerning online shopping behavior (Floetgen et al., 2021; Sabatini et al., 2023; Scheidt et al., 2020). Therefore, the objective of this study is to test these mediation effects based on the findings of the meta-analysis conducted.

Satisfaction

In this era focused on customer-centric practices, businesses universally aspire to attain customer satisfaction, recognizing it as essential for sustainable growth and a competitive advantage (Deng, Lu, Wei,

& Zhang, 2010; Udo, Bagchi, & Kirs, 2010). Customer satisfaction holds particular significance in service recovery and directly influences customers' attitudes and intentions (Holloway, Wang, & Parish, 2005). Post-recovery satisfaction specifically refers to customers' overall contentment with the secondary service (remedial action) provided by a service provider after a service failure. It is crucial to distinguish post-recovery satisfaction from customers' satisfaction with their initial service encounter, also known as secondary satisfaction (Liao et al., 2022). Post-recovery satisfaction has been extensively utilized to gauge the perceived level of justice in various studies (Liao et al., 2022; Mohd-Any et al., 2019; Nguyen, 2021; Schoefer, 2008).

In a survey examining service recovery in the banking sector, Nguyen et al. (2021) found that customers' post-recovery satisfaction increases with perceived distributive justice and interactional justice. This discovery aligns with the study by Mohd-Any et al. (2019) on service recovery practices in different cultural contexts, where distributive justice and procedural justice were observed to enhance post-recovery satisfaction when examining online shopping for electronic devices. Similarly, Phan et al. (2021) proposed that distributive justice, procedural justice, and interactional justice collectively contribute to increasing post-recovery satisfaction

Behavior Intention

Proponents like Kursan (2021) suggest that external factors, such as perceived social pressure, can influence behavior. Previous studies on subjective norms have covered diverse topics, including family Takaful scheme intention, older age infused soft drinks, participation in online communities, and online shopping. These studies often focused on university students as respondents, with some including the general public and professionals.

Contrary to the belief that there is a direct and significant relationship between subjective norms and consumer behavior, personal considerations often outweigh the influence of subjective norms (Jain, 2020). However, studies show that subjective norms indirectly affect consumer behavior through the mediation of purchase intentions (Al Zubaidi, 2020). The influence of families, friends, and the media on actual internet purchasing behavior is minor, with subjective norms identified as the second most influential factor, after perceived behavioral control, in influencing the intention to shop online (Kyle, 2020). The cultural-bound nature of Malaysians, as observed in the study by Kok & Low (2019), contributes to their aversion to changes.

Perceived usefulness, defined as the belief that online websites can provide value and efficacy, influences consumers' online shopping decisions. It is based on the belief that using a system will improve task performance and depends on technological features and personalized services offered by service providers (Driediger & Bhatiasevi, 2019; Grover et al., 2019). Previous studies in developed countries, such as Taiwan, have explored the correlation between perceived usefulness and consumer behaviors (Liao et al., 2011). The perspectives of respondents from developed and developing countries may vary regarding the influence of perceived usefulness on their internet shopping behavior (Peña-García et al., 2020).

In developed countries, factors like price, quality, and durability are prioritized in buying decisions, while considerations in developing countries may differ (Aftab et al., 2023). A study in Malaysia found that the perceived usefulness of a specific system significantly impacted its information system usage, emphasizing consumers' expectation for useful information and a convenient browsing experience when making purchases (Kim & Song, 2010). In summary, perceived usefulness significantly influences consumers' intention to purchase, especially in high-risk situations.

Research Method

The research adopts an explanatory survey approach, aiming not only to describe empirical facts in the field but also to provide an analysis of influences, as explained by Abbas et al. (2020). The unit of analysis comprises all internet users, with a total of 120 people selected as respondents through total sampling. The questionnaire presents statements representing variable indicators, and data collection techniques include field studies, literature reviews, and observational studies following Arboretti et al. (2022).

The stages of questionnaire administration to respondents include: (1) Determining respondents based on criteria, (2) Meeting with predetermined criteria respondents, (3) Respondents filling out the researcher-provided questionnaire, and (4) The completed questionnaires being processed by the researcher. Reliability, a measure of the consistency of measurement results, is assessed according to

Siregar (2013) and Clark and Watson (2019). Ghozali (2012) notes that research instruments are considered reliable if the Cronbach's alpha value exceeds 0.70.

For data analysis, the Structural Equation Modeling Partial Least Squares (SEM PLS) method is employed. Validity and reliability analysis involves Confirmatory Factor Analysis (CFA) for construct validity and Cronbach's alpha for reliability. Subsequently, a structural model analysis is conducted to test the relationships between variables using SEM PLS. The significance test of model parameters employs a bootstrap resampling method with a significance level of 0.05. To address potential multicollinearity, discriminant validity ensures that measured constructs or variables are distinct from each other.

In essence, the study tests the variables of perceived trust, perceived value, and perceived risk (X) on behavioral intentions (Y), with satisfaction (Z) acting as the mediator variable, as depicted in Figure 1.

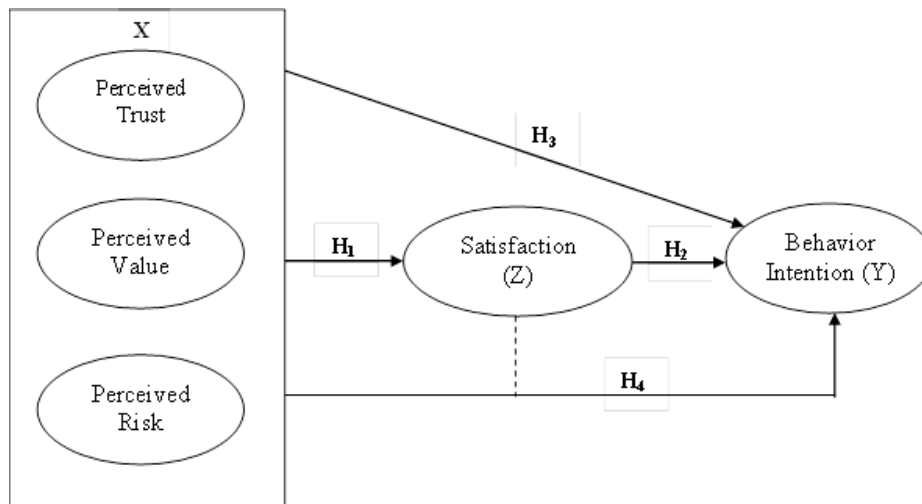


Figure 1. Model of Hypothetical Analysis

The proposed research hypotheses based on Figure 1 are as follows:

H1: There is an effect of perceived trust (PT), perceived value (PV), and perceived risk (PR) on satisfaction (S).

H2: There is an effect of satisfaction (S) on behavioral intention (BI).

H3: There is an effect of perceived trust (PT), perceived value (PV), and perceived risk (PR) on behavioral intention (BI).

H4: There is an effect of perceived trust (PT), perceived value (PV), and perceived risk (PR) on behavioral intention (BI) through satisfaction (S)

Results and Discussion

Validity and Reliability Test

The validity and reliability of each statement item from each variable in this study were assessed using the Confirmatory Factor Analysis (CFA) test through IBM SPSS AMOS 23. The results of the CFA test are presented in Table 2. Based on these fit index values, it can be concluded that the CFA model in this study is compatible with the data. Regarding the reliability test results presented in Table 3, Cronbach's Alpha for each variable in this study is greater than 0.7. Therefore, it can be concluded that each variable in this study is reliable based on these values.

To confirm the acceptability of each hypothesis in this study, the p-values obtained from the SEM test must adhere to the established criteria. The relevant evidence is presented in Table 3. The values in bold and on the diagonal lines in Table 3 represent the square root values of the Average Variance Extracted (AVE) values. Table 3 demonstrates that the square root values of the AVE are greater than the correlation values between the variables below them. This observation indicates that the discriminant validity in this study meets the criteria, and it can be concluded that all statement items from each of the variables used in this study are valid.

The hypothesised results of the study are presented in Table 4. Hypothesis 1 suggests that perceived trust, perceived value, and perceived risk significantly impact satisfaction levels, aligning with

prior research and emphasizing the pivotal role of trust and value in online transactions. This study's findings are consistent with the work of Baidoun and Salem (2023), Qalati et al. (2021), and Tzavlopoulos et al. (2019), all of which focused on the online shopping behavior of Palestinian millennials. Baidoun and Salem (2023) highlighted the importance of trust and value in shaping millennials' intentions to shop online, finding that factors like perceived usefulness and website quality positively influenced online shopping intention, with trust and perceived value reinforcing these effects. Similarly, Tzavlopoulos et al. (2019) explored perceived quality and value, establishing connections between higher quality, greater perceived value, increased satisfaction, and enhanced loyalty, while simultaneously reducing perceived risk. Qalati et al. (2021) also confirmed the significance of trust-related aspects in online shopping, emphasizing the role of trust in reducing perceived risk and increasing customer loyalty. Thus, this study aligns with the cumulative findings of previous research, contributing to a comprehensive understanding of online consumer behavior across diverse contexts (Baidoun & Salem, 2023; Qalati et al., 2021; Tzavlopoulos et al., 2019).

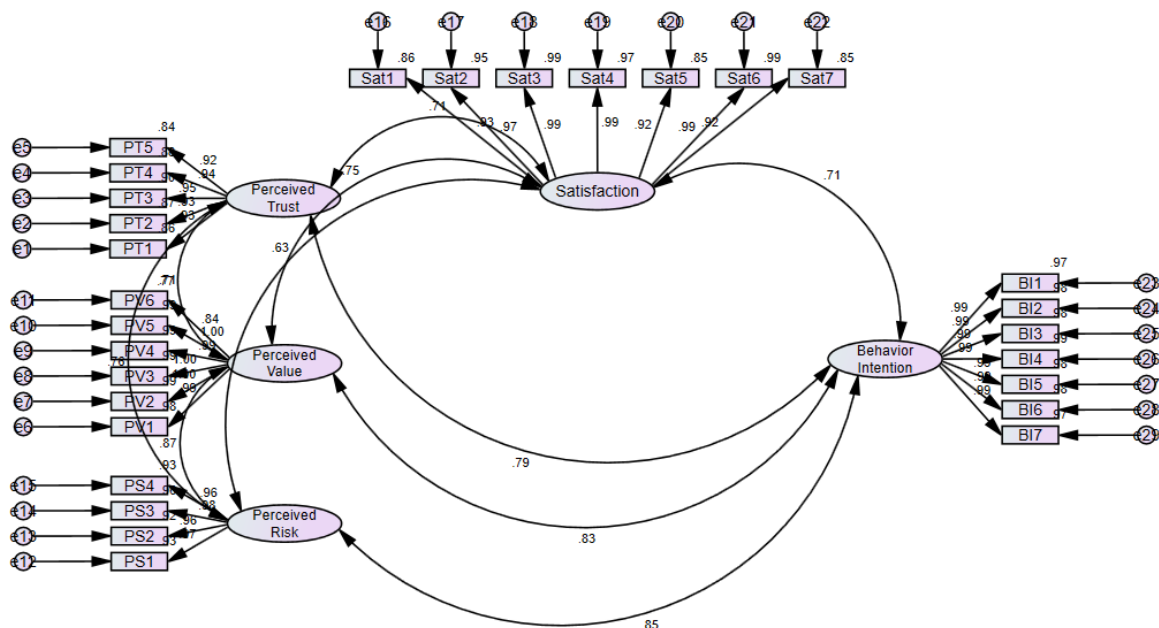


Figure 2. Result of Structural Equation Modelling

Table 2. Fit Index Value of CFA Model with Research Data

Fit Index	CMIN/DF	GFI	AGFI	NFI	RFI	IFI	TLI	CFI	RMR	RMSEA
Value	1.757	0.84	0.77	0.88	0.845	0.94	0.93	0.94	0.05	0.078

Table 3. Correlation between Variables and Discriminant Validity

Variables	PT	PV	PS	Sat	BI
PT	0,838				
PV	0.276***	0,748			
PR	0.199***	0.588***	0,740		
Sat	0.239***	0.401***	0.346***	0,840	
BI	0.270***	0.448***	0.378***	0.463***	0,747
Cronbach's Alpha	0.97				

Note: *** Significant at the 0.001 level of significance; PT is Perceived Trust, PV is Perceived Value, PR is Perceived Risk, Sat is Satisfaction, BI is Behavior Intention

Table 4. The result of the hypothesis testing

Hypothesis	Beta	<i>p-Value</i>	Decision	R ²
H1	0.353	0.000	Supports	0.117
H2	0.498	0.000	Supports	0.241
H3	0.360	0.000	Supports	0.348
H4	0.526	0.000	Supports	

Note: *** Significant at the 0.001 level of significance; PT is Perceived Trust, PV is Perceived Value, PR is Perceived Risk, Sat is Satisfaction, BI is Behavior Intention

Hypothesis 2 posits that satisfaction significantly influences behavioral intentions, and the robust statistical analysis results support this positive relationship. These findings not only affirm the central role of satisfaction in shaping consumers' behavioral intentions but also align with previous research emphasizing its significance. The results indicate a substantial relationship between satisfaction (S) and behavioral intention (BI), consistent with the studies by [Deng, Lu, Wei, & Zhang \(2010\)](#); [Udo, Bagchi, & Kirs \(2010\)](#); and [Liao et al. \(2022\)](#). Satisfaction is recognized as the influential factor in customers' behavioral intentions (BI). These findings also echo the research of [Baidoun and Salem \(2023\)](#), [Qalati et al. \(2021\)](#), and [Tzavlopoulos et al. \(2019\)](#) on Palestinian millennial online shopping behavior, where trust, value, and quality were identified as influencing online shopping intentions, with trust strengthening perceived value and reducing perceived risk ([Baidoun & Salem, 2023](#); [Tzavlopoulos et al., 2019](#); [Qalati et al., 2021](#)). In summary, both the current study and previous research collectively contribute to the understanding of online consumer behavior ([Baidoun & Salem, 2023](#); [Qalati et al., 2021](#); [Tzavlopoulos et al., 2019](#)).

Hypothesis 3 delves into the impact of perceived trust, perceived value, and perceived risk on behavioral intentions, and the results of the statistical analysis affirm that these three factors significantly influence the formation of behavioral intentions. Perceived Trust (PT), Perceived Value (PV), and Perceived Risk (PR) exhibit a significant positive impact on Behavioral Intention (BI). The results of the statistical analysis indicate that these three factors collectively exert a noteworthy influence on the development of Behavioral Intention (BI), as evidenced by a P-value of 0.000. This underscores the significance of comprehending the five indicators constituting Perceived Trust (PT), the six indicators forming Perceived Value (PV), and the four indicators shaping Perceived Risk (PR) in relation to both favorable and unfavorable Behavioral Intention (BI) manifestations, encompassing a total of seven indicators.

The implications of this study underscore the importance of upholding trust and values within the e-commerce community while being vigilant against undesirable outcomes or risks stemming from the promotion of positive behavioral intentions. Notably, online shopping among millennials significantly contributes to consumer behavior in the digital environment. This finding aligns with prior research conducted by [Baidoun and Salem \(2023\)](#), [Qalati et al. \(2021\)](#), and [Tzavlopoulos et al. \(2019\)](#), all of whom explored online shopping behavior among Palestinian millennials. Also, [Baidoun and Salem \(2023\)](#) highlight the pivotal role of trust and values in influencing the online shopping intentions of the millennial generation. This observation is consistent with [Tzavlopoulos et al.'s \(2019\)](#) research, which delved into factors such as quality and perceived value, revealing that higher quality leads to increased perceived value, satisfaction, and loyalty.

Hypothesis 4 examines the combined influence of perceived trust, perceived value, perceived risk, and satisfaction on behavioral intentions. The analysis results reveal a significant combined effect, underscoring the importance of comprehending interactions between variables in shaping consumer behavior. This finding aligns with previous studies by [Baidoun & Salem \(2023\)](#), [Qalati et al. \(2021\)](#), and [Tzavlopoulos et al. \(2019\)](#), all of whom investigated online shopping behavior among Palestinian millennials. [Baidoun and Salem \(2023\)](#) emphasized the importance of trust and value in influencing millennials' online shopping intentions. This evidence is consistent with [Tzavlopoulos et al.'s \(2019\)](#) study, which explored factors like perceived quality and value, revealing that higher quality led to increased perceived value, satisfaction, and loyalty. Additionally, this study aligns with [Qalati et al.'s \(2021\)](#) exploration of trust factors in online shopping, highlighting trust's role in reducing perceived risk and increasing customer loyalty.

In summary, these findings offer valuable insights into the factors motivating and shaping online consumer behavior. The implications of this research underscore the importance of building and maintaining trust and value in e-commerce environments to enhance satisfaction and, consequently, encourage positive behavioral intentions. By focusing on the context of online shopping among Palestinian millennials, this research contributes to a deeper understanding of consumer trends in the digital

environment. Ultimately, these findings serve as a foundation for developing more effective marketing strategies and improving the customer experience in the world of e-commerce.

Conclusions, suggestions and limitations

In summary, this research delves into the intricate landscape of online consumer behavior, with a specific focus on Palestinian millennials. The study unfolds a narrative that emphasizes the pivotal roles of perceived trust, perceived value, perceived risk, and satisfaction in shaping the behavioral intentions of this demographic in the realm of online shopping. The findings underscore a fundamental connection between perceived trust, value, and risk, and the resulting levels of satisfaction experienced by consumers during online transactions. This interplay highlights the nuanced dynamics at play in the online shopping experience and accentuates the significance of factors such as trustworthiness and perceived value.

Furthermore, the research establishes a clear link between satisfaction and subsequent behavioral intentions. It articulates the notion that satisfied consumers are more likely to exhibit positive intentions in their online shopping behaviors. This aligns with established theories emphasizing the pivotal role of customer satisfaction in influencing future actions. The study also delves into the direct impact of perceived trust, value, and risk on behavioral intentions, providing insight into the multifaceted decision-making processes of Palestinian millennials in the digital marketplace. The intricate relationships between these factors suggest that a holistic understanding is essential for predicting and encouraging positive online consumer behavior. Importantly, the research goes beyond individual factors and explores the combined effect of perceived trust, value, risk, and satisfaction on behavioral intentions. This holistic approach emphasizes the interconnectedness of these elements and reinforces the idea that successful e-commerce strategies must consider the collective influence of these factors.

Nevertheless, researchers acknowledge certain limitations, particularly in the survey methodology employed in this study. The reliance on survey data introduces the possibility of response bias and self-reporting errors. Subsequent research endeavors could enhance the robustness of these findings by incorporating mixed methods or employing longitudinal studies for validation. Moreover, researchers are encouraged to conduct analogous studies in diverse cultural and geographic settings across various countries. This approach aims to evaluate the generalizability of the findings and discern potential cultural variations in consumer behavior, paving the way for more comprehensive insights in future research.

Competing Interests

The author declares that she has no competing interests that are relevant to the content of this article.

References

- Abbas, J., Zhang, Q., Hussain, I., Akram, S., Afaq, A., & Shad, M. A. (2020). Sustainable innovation in small medium enterprises: the impact of knowledge management on organizational innovation through a mediation analysis by using SEM approach. *Sustainability*, 12(6). <https://doi.org/10.3390/su12062407>
- Adnan, M.A., Barbara, G., Ratri, C. (2014). Pengaruh Profitabilitas, Leverage, Growth, dan Free Cash Flow Terhadap Dividend Payout Ratio Perusahaan dengan mempertimbangkan Corporate Governance sebagai Variabel Intervening. *Jurnal Akuntansi Dan Auditing Indonesia*, 18(2). <https://doi.org/10.20885/jaai.vol18.iss2.art1>
- Aftab, J., Abid, N., Cucari, N., & Savastano, M. (2023). Green human resource management and environmental performance: The role of green innovation and environmental strategy in a developing country. *Business Strategy and the Environment*, 32(4). <https://doi.org/10.1016/j.techfore.2019.119762>
- Al Zubaidi, N. (2020). The relationship between collectivism and green product purchase intention: The role of attitude, subjective norms, and willingness to pay a premium. *Journal of Sustainable Marketing*, 1(1). <https://doi.org/10.51300/josm-2020-23>
- Aladwani, A. M. (2001). Online banking: a field study of drivers, development challenges, and aladwan [https://doi.org/https://doi.org/10.1016/S0268-4012\(01\)00011-1](https://doi.org/https://doi.org/10.1016/S0268-4012(01)00011-1)
- Alam, S. S., Bakar, Z., Bakar, Z., & Ahsan, M. N. (2008). Young Consumers Online Shopping: An Empirical Study. *Journal of Internet Business*, (5).
- Al-Debei, M. M., Akroush, M. N., & Ashouri, M. I. (2015). Consumer Attitudes Towards Online Shopping: The Effects of Trust, Perceived Benefits, and Perceived Web Quality. *Internet Research*, 25(5).

- <https://doi.org/https://doi.org/10.1108/IntR-05-2014-0146>
- Al-Jundi, S. A., Shuhaiber, A., & Augustine, R. (2019). Effect of consumer innovativeness on new product purchase intentions through learning process and perceived value. *Cogent Business & Management*, 6(1). <https://doi.org/10.1080/23311975.2019.1698849>
- Alzoubi, H., Alshurideh, M., Kurdi, B. A., Alhyasat, K., & Ghazal, T. (2022). The effect of e-payment and online shopping on sales growth: Evidence from banking industry. *International Journal of Data and Network Science*, 6(4). <https://doi.org/10.5267/j.ijdns.2022.5.014>
- Arboretti, R., Ceccato, R., Pegoraro, L., & Salmaso, L. (2022). Design of Experiments and machine learning for product innovation: A systematic literature review. *Quality and Reliability Engineering International*, 38(2). <https://doi.org/10.1002/qre.3025>
- Assidiqi, H. (2009) Analisis Faktor-Faktor yang Mempengaruhi Perilaku Keputusan Konsumen Dalam Pembelian On-Line (ECommerce) di Jakarta dan Bandung. *Bina Nusantara*. Available at: [http://library.binus.ac.id/eColls/eThesis/Bab 2/tsa-2010-0024 2.pdf](http://library.binus.ac.id/eColls/eThesis/Bab%202/tsa-2010-0024%20.pdf).
- Baidoun, S. D., & Salem, M. Z. (2023). The moderating role of perceived trust and perceived value on online shopping behavioral intention of Palestinian millennials during COVID-19. *Competitiveness Review: An International Business Journal*. <https://doi.org/10.1108/CR-10-2022-0161>
- Bramall, C., Schoefer, K., & McKechnie, S. (2004). The determinants and consequences of consumer trust in online environments: an exploratory investigation. *International Journal of Internet Marketing and Advertising*, 1(4). <https://doi.org/10.1504/IJIMA.2004.006331>
- Camp, L. J. (2001). *Trust and Risk in Internet Commerce*. Cambridge: The MIT Press.
- Chiu, C. et al. (2009). Determinants of customer repurchase intention in online shopping. *Online Information Review*, 33(4). <https://doi.org/10.1108/14684520910985710>
- Clark, L. A., & Watson, D. (2019). Constructing Validity: New Developments in Creating Objective Measuring Instruments. *Psychological Assessment*, 31(12). <https://doi.org/10.1037/pas0000626>
- Deng, Z., Lu, Y., Wei, K. K., & Zhang, J. (2010). Understanding Customer Satisfaction and Loyalty: An Empirical Study of Mobile Instant Messages in China. *International Journal of Information Management*, 30(4). <https://doi.org/DOI:10.1016/j.ijinfomgt.2009.10.001>
- Dodds, W. B., Monroe, K. B., & Grewal, D. (1991). Effects Of Price, Brand, And Store Information On Buyers' Product Evaluations. *Journal of Marketing Research*, 28(3). <https://doi.org/https://doi.org/10.2307/3172866>
- Dogbe, C. S. K., Zakari, M., & Pesse-Kuma, A. G. (2019). Perceived Online Risk, Consumer Trust and M-Shopping Behaviour. *E-Journal of Social & Behavioural Research in Business*, 10(1). https://www.researchgate.net/publication/334249266_Perceived_Online_Risk_Consumer_Trust_and_M-Shopping_Behaviour
- Donato, C., & Raimondo, M. A. (2021). The effects of online tactile information source for low-touch products on consumer responses. *Journal of Consumer Marketing*, 38(4). <https://doi.org/10.1108/JCM-08-2019-3367>
- Driediger, F., & Bhatiasevi, V. (2019). Online grocery shopping in Thailand: Consumer acceptance and usage behavior. *Journal of Retailing and Consumer Services*, 48. <https://doi.org/10.1016/j.jretconser.2019.02.00>
- El-Ebiary, Y. A. B., Aseh, K., Bamansoor, S., Pande, B., Abu-Ulbeh, W., Yusoff, M. H., ... & Al Moaiad, Y. (2021). Mobile commerce and its apps-opportunities and threats in Malaysia. *International Conference on Smart Computing and Electronic Enterprise (ICSCEE)*. <https://doi.org/10.1109/ICSCEE50312.2021.9498228>
- Eneizan, B., Alsaad, A., Abdelbaset Alkhalwaldeh, H. N., & Rawash, O. E. (2020). E-wom, trust, usefulness, ease of use, and online shopping via websites: the moderating role of online shopping experience. *Journal of Theoretical and Applied Information Technology*, 98(13). https://www.researchgate.net/publication/342956998_E-WOM_TRUST_USEFULNESS_EASE_OF_USE_AND_ONLINE_SHOPPING_VIA_WEBSITES_THE_MODERATING_ROLE_OF_ONLINE_SHOPPING_EXPERIENCE
- Engriani, Y., & Novaris, A. (2019). The Effect of Perceived Benefit, Electronic Word of Mouth and Perceived Web Quality on Online Shopping Attitude in Shopee With Trust as an Intervening Variable. *Advances in Economics, Business and Management Research*, 124(October 2018).
- Floetgen, R. J., Novotny, M. A., Urmetzer, F., & Böhm, M. (2021). Connecting the Dots of Digital Platform Ecosystem Research: Constructs, Causal Links and Future Research. *ECIS*. https://www.researchgate.net/publication/351068907_Connecting_the_Dots_of_Digital_Platform_Ecosystem_Research_Constructs_Causal_Links_and_Future_Research

- Gadeikienė, A., & Švarcaitė, A. (2021). Impact of consumer environmental consciousness on consumer perceived value from sharing economy. *Inžinerinė ekonomika*. https://www.researchgate.net/publication/355743472_Impact_of_Consumer_Environmental_Consciousness_on_Consumer_Perceived_Value_from_Sharing_Economy
- Ghozali, I. (2012). *Aplikasi Analisis Multivariate dengan Program IBM SPSS*. Yogyakarta: Universitas Diponegoro.
- Grover, P., Kar, A. K., Janssen, M., & Ilavarasan, P. V. (2019). Perceived usefulness, ease of use and user acceptance of blockchain technology for digital transactions—insights from user-generated content on Twitter. *Enterprise Information Systems*, 13(6). <https://doi.org/10.1080/17517575.2019.1599446>
- Gupta, A. S., & Mukherjee, J. (2022). Long-term changes in consumers' shopping behavior post-pandemic: an exploratory study. *International Journal of Retail & Distribution Management*, 50(12), 1518–1534. <https://doi.org/10.1108/IJRDM-04-2022-0111>
- Hernandez-Fernandez, A., & Lewis, M. C. (2019). Brand authenticity leads to perceived value and brand trust. *European Journal of Management and Business Economics*, 28(3). <https://doi.org/10.1108/EJMBE-10-2017-0027>
- Hoffman, D. L. and Novak, T. P. (1996) Marketing in Hypermedia Computer-Mediated Environments: Conceptual Foundations. *Journal of Marketing*, 60(3). <https://doi.org/10.2307/1251841>
- Holloway, B. B., Wang, S., & Parish, J. (2005). The Role Of Cumulative Online Purchasing Experience In Service Recovery Management. *Journal of Interactive Marketing*, 19. <https://doi.org/DOI:10.1002/dir.20043>
- Jain, S. (2020). Assessing the moderating effect of subjective norm on luxury purchase intention: A study of Gen Y consumers in India. *International Journal of Retail & Distribution Management*, 48(5). <https://doi.org/10.1108/IJRDM-02-2019-0042>
- Khanna, T. M., Baiocchi, G., Callaghan, M., Creutzig, F., Guias, H., Haddaway, N. R., ... & Minx, J. C. (2021). A multi-country meta-analysis on the role of behavioural change in reducing energy consumption and CO2 emissions in residential buildings. *Nature Energy*, 6(9). <https://www.nature.com/articles/s41560-021-00866-x>
- Kim, H. K., & Song, J. H. (2010). The Quality of Word-Of-Mouth in the Online Shopping Mall. *Journal of Research in Interactive Marketing*, 4(4). <https://doi.org/10.1108/17505931011092844>
- Kim, H., & So, K. K. F. (2023). The evolution of service failure and recovery research in hospitality and tourism: An integrative review and future research directions. *International Journal of Hospitality Management*, 111. <https://doi.org/10.1016/j.ijhm.2023.103457>
- Kim, Y. J., Park, J. S., & Jeon, H. M. (2021). Experiential value, satisfaction, brand love, and brand loyalty toward robot barista coffee shop: The moderating effect of generation. *Sustainability*, 13(21). <https://doi.org/10.3390/su132112029>
- Kok, J. K., & Low, S. K. (2019). Risk factors contributing to vulnerability of mental health disorders and the protective factors among Malaysian youth. *International Journal of School & Educational Psychology*, 7(2). <https://doi.org/10.1080/21683603.2018.1499573>
- Kursan Milaković, I. (2021). Purchase experience during the COVID-19 pandemic and social cognitive theory: The relevance of consumer vulnerability, resilience, and adaptability for purchase satisfaction and repurchase. *International Journal of Consumer Studies*, 45(6). <https://doi.org/10.1111/ijcs.12672>
- Kyle, G., Landon, A., Vaske, J., & Wallen, K. (2020). Tools for assessing the psychometric adequacy of latent variables in conservation research. *Conservation Biology*, 34(6). <https://doi.org/10.1111/cobi.13625>
- Lasalle, J. L. (2011). *Global E-Commerce and Retail Logistics*. IP Inc.
- Lăzăroiu, G., Neguriță, O., Grecu, I., Grecu, G., & Mitran, P. C. (2020). Consumers' decision-making process on social commerce platforms: Online trust, perceived risk, and purchase intentions. *Frontiers in Psychology*, 11. <https://www.frontiersin.org/articles/10.3389/fpsyg.2020.00890/full>
- Lee, M. K. O. and Turban, E. (2001) A Trust Model for Consumer Internet Shopping. *International Journal of Electronic Commerce*, 6(1). <https://doi.org/10.1080/10864415.2001.11044227>
- Liao, S. et al. (2011) Preparation and characterization of ZnO/TiO₂, SO₄²⁻/ZnO/TiO₂ photocatalyst and their photocatalysis. *Journal of Photochemistry and Photobiology A: Chemistry*, 168(1–2). <https://doi.org/10.1016/j.jphotochem.2004.05.010>
- Liao, Y. K., Wu, C. Y., Truong, G. N. T., & Do, Y. T. (2022). The Roles of Service Recovery and Perceived Justice on Post-Recovery Satisfaction in M-Commerce. *Sustainability*, 14(22). <https://doi.org/10.3390/su142214838>

- Mbete, G. S., & Tanamal, R. (2020). Effect of Easiness, Service Quality, Price, Trust of Quality of Information, and Brand Image of Consumer Purchase Decision on Shopee Online Purchase. *Jurnal Informatika Universitas Pamulang*, 5(2). <https://doi.org/10.32493/informatika.v5i2.4946>
- Mergoni, A., D'Inverno, G., & Carosi, L. (2022). A Composite Indicator for Measuring the Environmental Performance of Water, Wastewater, and Solid Waste Utilities. *Utilities Policy*, 74(C). <https://doi.org/10.1016/j.jup.2021.101285>
- Mohd-Any, A. A., Mutum, D. S., Ghazali, E. M., & Mohamed-Zulkifli, L. (2019). To fly or not to fly? An empirical study of trust, post-recovery satisfaction and loyalty of Malaysia Airlines passengers. *Journal of Service Theory and Practice*, 29(5/6). <https://doi.org/10.1108/JSTP-10-2018-0223>
- Mukherjee, A. and Nath, P. (2003) A model of trust in online relationship banking. *International journal of bank marketing*, 21(1). <https://doi.org/10.1108/02652320310457767>
- Nguyen, Q., Ngo, A., & Mai, V. (2021). Factors impacting online complaint intention and service recovery expectation: The case of e-banking service in Vietnam. *International Journal of Data and Network Science*, 5(4). <https://doi.org/10.5267/j.ijdns.2021.8.001>
- Oh, H. (2003). Reexamining Recovery Paradox Effects and Impact Ranges of Service Failure and Recovery. *Journal of Hospitality & Tourism Research*, 27(4). <https://doi.org/https://doi.org/10.1177/10963480030274002>
- Palash, M. A. S., Talukder, M. S., Islam, A. N., & Bao, Y. (2022). Positive and negative valences, personal innovativeness and intention to use facial recognition for payments. *Industrial Management & Data Systems*, 122(4). <https://doi.org/10.1108/IMDS-04-2021-0230>
- Paul, J., & Barari, M. (2022). Meta-analysis and traditional systematic literature reviews—What, why, when, where, and how? *Psychology & Marketing*, 39(6). <https://doi.org/10.1002/mar.21657>
- Peña-García, N., Gil-Saura, I., Rodríguez-Orejuela, A., & Siqueira-Junior, J. R. (2020). Purchase intention and purchase behavior online: A cross-cultural approach. *Heliyon*, 6(6). <https://doi.org/10.1016/j.heliyon.2020.e04284>
- Phan, A., Nguyen, H., & Pham, T. (2021). Relationship between service recovery, customer satisfaction and customer loyalty: Empirical evidence from e-retailing. *Uncertain Supply Chain Management*, 9(1). <https://doi.org/10.5267/j.uscm.2020.12.007>
- Qalati, S. A., Vela, E. G., Li, W., Dakhan, S. A., Hong Thuy, T. T., & Merani, S. H. (2021). Effects of perceived service quality, website quality, and reputation on purchase intention: The mediating and moderating roles of trust and perceived risk in online shopping. *Cogent Business & Management*, 8(1). <https://doi.org/10.1080/23311975.2020.1869363>
- Sabatini, J., Graesser, A. C., Hollander, J., & O'Reilly, T. (2023). A framework of literacy development and how AI can transform theory and practice. *British Journal of Educational Technology*. <https://doi.org/10.1111/bjet.13342>
- Salem, M., & Baidoun, S. (2023). Factors Affecting Consumer Post COVID-19 Online Shopping Behavior: The Moderating Role of Commitment – Evidence from Palestine. *Journal of Strategic Marketing*, 31(7). <https://doi.org/https://doi.org/10.1080/0965254X.2023.2229329>
- Scheidt, S., Gelhard, C., & Henseler, J. (2020). Old practice, but young research field: A systematic bibliographic review of personal branding. *Frontiers in psychology*, 11. <https://doi.org/.3389/fpsyg.2020.01809>
- Schoefer, K. (2008). The Role of Cognition and Affect in the Formation of Customer Satisfaction Judgment Concerning Service Recovery Encounter. *Journal of Consumer Behaviour*, 7(3). <https://doi.org/DOI:10.1002/cb.246>
- Shah, A. M., Yan, X., Shah, S. A. A., & Ali, M. (2020). Customers' perceived value and dining choice through mobile apps in Indonesia. *Asia Pacific Journal of Marketing and Logistics*, 33(1). <https://doi.org/10.1108/APJML-03-2019-0167>
- Siregar, S. (2013). *Model Penelitian Kuantitatif: Dilengkapi Perbandingan Perhitungan Manual & SPSS*. Prenadamedia Group.
- Sivan, R., & Zukarnain, Z. A. (2021). Security and privacy in cloud-based e-health system. *Symmetry*, 13(5). <https://doi.org/10.3390/sym13050742>
- Tzavlopoulos, I., Gotzamani, K., Andronikidis, A., & Vassiliadis, C. (2019). Determining the impact of e-commerce quality on customers' perceived risk, satisfaction, value and loyalty. *International Journal of Quality and Service Sciences*, 11(4). <https://doi.org/10.1108/IJQSS-03-2019-0047>
- Udo, G. J., & Bagchi, K. K. (2010). An Assessment of Customers' E-Service Quality Perception, Satisfaction and Intention. *International Journal of Information Management*, 30(6). <https://doi.org/DOI:10.1016/j.ijinfomgt.2010.03.005>

Widyastuti, W., Hartini, S., & Artanti, Y. (2020). Revisiting The Online Shopper's Behaviour in Indonesia: The Role of Trust and Perceived Benefit. *International Journal of Industrial Engineering and Management*, 11(4). <https://doi.org/10.24867/IJEM-2020-4-267>