

# Consumer Psychology in the Digital Age: How Online Environments Shape Purchasing Habits

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**Abstract:** The advent of the digital age has profoundly changed consumers' mindsets and habits. The rapid development of e-commerce and the widespread use of mobile applications have created enormous demand for individual recommendation systems based on mass data. This system not only increases the convenience of purchases and conversions but also alters the purchasing behavior of consumers, leading them to make choices subconsciously. Potential risks associated with large-scale data sharing and usage have heightened consumer concerns regarding privacy, thereby weakening the foundational trust in platforms and deterring them from shopping. Additionally, the rapid growth of e-commerce in the digital age, coupled with changing market circumstances, has intensified psychological pressure on consumers, making their decision-making processes more complex and difficult. Furthermore, the program will explore issues related to improving customer experience, developing individual marketing strategies, and designing customer loyalty plans. It will also address questions of privacy in a digital environment, the dilemmas of excessive or disruptive consumption behavior, and the complexity and diversity of consumer behavior in the face of digital change. The objective of this study is to develop a fear study that will enable a better understanding of the impact of online shopping on consumer behavior and provide a strategic guide for retailers to meet the challenges and opportunities presented by the digital age.

**Keywords:** Digital age; Consumer psychology; Online shopping; Purchasing habits; Privacy protection; Personalized recommendation

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## 1. Introduction

With the rapid rise of the digital society, there has been a fundamental change in consumer perceptions and shopping patterns, especially in the field of virtual commerce. With the advancement of internet technology—particularly the popularity of mobile devices and the emergence of e-business ecosystems—customers are increasingly moving from physical stores to online platforms. This shift not only changes the way consumers buy but also significantly influences their choices and behaviors. According to the literature analysis <sup>[1]</sup>, the convenience and richness of information provided by digital platforms have greatly shortened users'

selection times and increased purchase frequency. Consumers can easily access a wide range of products and services within a digital ecosystem and rapidly learn about product quality and user feedback through evaluation systems. Research also indicates that in the digital era, consumers are becoming more rational when choosing products, with cost-effectiveness emerging as a crucial element in decision-making <sup>[2]</sup>. However, the overwhelming amount of information on the internet leads to the issue of “data overload,” causing decision anxiety. Due to the complexity of products, the time spent on individual screening has increased significantly, along with psychological pressure.

Additionally, brand loyalty in the digital environment is displaying new trends. Research shows that, in contrast to previous reliance on traditional brand images, consumers on digital platforms tend to seek cost-effective products or services, resulting in “brand migration” <sup>[3]</sup>. This phenomenon occurs when, over multiple phases, the attractiveness of one brand diminishes, and consumers increasingly crave immediate gratification. Fornell and Larcker’s study indicates that with the development of information technology, users are more concerned about information security issues, particularly the collection and analysis of massive data <sup>[4]</sup>. The leakage of user data can lead not only to excessive use of personal information but also to various online fraud, identity theft, and other harmful behaviors. Other study shows that personal privacy is closely linked to customer trust <sup>[5]</sup>. When purchasing goods, consumers consider not only the cost-effectiveness and quality of the items but also the information provided and its security. When a platform clearly articulates its privacy protection measures and ensures the security of user data, it greatly enhances customer trust and loyalty. However, if users perceive a risk of privacy violation, they may abandon the platform in search of alternatives. The study by Chen *et al.* <sup>[6]</sup> highlights the importance of users’ attention to personal information. Although personalized recommendation algorithms based on extensive individual data offer convenience, excessive data collection and usage can lead to user dissatisfaction. Another research found that users desire both convenience and control over their own information <sup>[7]</sup>. In this context, e-commerce companies must meet personalized needs while considering the implications of personalized recommendations, making this a key scientific issue that urgently requires resolution by e-commerce firms.

This study focuses on exploring how the online shopping ecosystem reconstructs consumers’ purchasing patterns amid digital transformation and deeply analyzes the intrinsic driving mechanisms of trust-building, security enhancement, instant gratification needs, and the effects of social interaction on this process. This article further explains how retailers can innovate their strategies by upgrading user experience, implementing customized marketing, and strengthening customer loyalty programs to flexibly respond to and lead the dynamic changes in consumer behavior. Additionally, the study aims to analyze the multiple challenges faced by consumers in the digital age, such as increased decision-making difficulties arising from privacy and security threats, as well as information overload, while looking ahead to the potential of emerging technologies to shape future paradigms of consumer behavior.

## **2. Characteristics of the online shopping environment**

### **2.1. Differences between online and offline shopping**

There is a significant difference between the Internet and traditional shopping. This difference is reflected not only in the shopping experience but also in its profound impact on consumers’ psychology and purchasing decisions. First, online shopping breaks the limitations of time and space, allowing users to conduct transactions on various e-commerce platforms anytime and anywhere. The feature of “buy now, pay later” greatly enhances

customer flexibility and convenience, leading to randomness and dispersion in purchasing behavior <sup>[8]</sup>. In contrast, due to the operational cycles and location constraints of physical stores, customers must invest more effort and time to make purchases.

Secondly, online shopping provides consumers with a wider selection of items. On multiple platforms, users can easily compare prices, specifications, user reviews, and more to make more informed purchasing decisions. Conversely, products purchased in physical stores are often more limited, and generally confined to a single store, making it difficult to compare multiple stores as conveniently as in online shopping malls. The diversification and transparency of online shopping offer customers a better basis for selection and strengthen their control over products.

However, online shopping also presents unique challenges. Customers cannot physically experience, touch, or feel the goods, which increases their uncertainty regarding purchases. This hesitation and anxiety are especially pronounced when considering expensive or personalized products. “Uncertainty” leads users to compensate for perceived deficiencies through product descriptions, reviews, and images, ultimately increasing purchase rates and satisfaction. To reduce customers’ risk perception regarding goods and enhance their purchasing confidence, major online platforms have implemented “unconditional refund” policies <sup>[9]</sup>.

## **2.2. How e-commerce platforms, social media, and mobile software affect customer experience**

E-commerce platforms aim to offer the best buying experience for their clients through technology while increasing customer retention and shopping frequency in their product designs. The design of the website, its functionality, and its interaction with the user significantly influence their buying habits and shopping choices. For instance, the e-commerce giant Amazon has launched a new feature known as “Click to Order,” which dramatically simplifies the purchasing process for consumers. This feature not only meets clients’ demands for efficiency but also decreases hesitation and abandonment during decision-making.

Simultaneously, social media has become a key factor affecting customers’ purchasing experiences. The comments and recommendations of “opinion leaders” and “internet celebrities” on social networking platforms serve as important references for contemporary consumer behavior. Social platforms establish a communication link between brands and customers. Through social media, consumers can access real user experiences and interact with them. In the realm of new products or services, feedback on social media plays a critical role in influencing purchasing behavior.

The rise of mobile applications has made online shopping more convenient. In recent years, the widespread use of smartphones has enabled users to browse, pay for, and order products anytime and anywhere. E-commerce platforms have significantly improved customers’ purchasing flexibility by optimizing personalized services. For example, e-commerce websites like Taobao and Pinduoduo feature simple interface designs, personalized recommendations, and social interactions that enhance users’ engagement and loyalty. This convenience not only reduces the time needed for customers to make decisions but also leads to more spontaneous and frequent purchases <sup>[10]</sup>.

## **2.3. The role of big data in personalized recommendations**

With the advent of the internet era, e-commerce can better understand consumer preferences, enabling it to offer more precise and personalized recommendations. By analyzing customers’ browsing history, shopping patterns,

and interests, customized products are recommended to enhance product quality and customer loyalty. This document proposes a user-friendly approach for recommending products, which may incentivize purchases and reduce dependence on specific products<sup>[11]</sup>. This personalized shopping experience not only simplifies the selection process for customers but also provides them with a sense of accomplishment upon making purchases. For example, e-commerce platforms can recommend popular products based on browsing history, shopping habits, and purchase history. In “Master Cards, Many Faces,” customers can express their needs and enhance the accuracy of product recommendations through constant updates and feedback.

## **2.4. Psychological and behavioral changes in consumer groups**

In the digital age, people’s consumption mentality and habits are evolving. Traditional consumption choices were primarily influenced by external factors such as advertising, product displays, and network communication, while in the digital society, they are increasingly driven by algorithms, recommendation systems, and social media. Currently, there is a trend among Chinese consumers shifting from active searches to passive receptions when purchasing goods, which is changing their decision-making logic.

Firstly, consumers are becoming more aware of the algorithms behind their purchase decisions. In the internet era, algorithms have become an important factor influencing purchasing behavior. For a wide range of products, consumers tend to trust the recommendations provided by e-commerce platforms instead of conducting their own research and comparisons. While this reliance alleviates the decision-making burden, it simultaneously limits their independence and critical scrutiny<sup>[12]</sup>.

Secondly, the digitized social environment deeply influences consumer buying behavior. In the context of online shopping, consumers’ strong desire for immediate gratification has significantly increased. Limited-time discounts and other promotions stimulate their appetite for purchases, leading to more impulsive decisions without thorough consideration.

Additionally, social media has a substantial impact on consumers’ psychology and behavior. Brand promotions, influencer recommendations, and user reviews on social media heavily influence shopping behavior. This socialized purchasing habit encourages customers to consider others’ suggestions alongside their own experiences with the website. For certain user groups, evaluations and feedback from social media play an essential role in shaping their shopping behavior.

## **3. Consumer psychology in the online environment**

### **3.1. Trust building and sense of security**

Trust and a sense of security are the cornerstones of online transactions. In a virtual shopping environment, consumers face the limitation of not being able to directly experience the products, making their trust in the platform particularly critical. The reputation of the e-commerce platform, the payment security mechanisms, and the authenticity of user reviews constitute the three major factors that shape consumer trust. Any omission in any of these areas may erode consumer confidence and thus affect their willingness to buy. Third-party payment platforms, such as PayPal and Alipay, have significantly enhanced the sense of security in the transaction process with their advanced encryption technology and buyer protection mechanisms. Studies have shown that consumers prefer e-commerce platforms with robust payment systems and adequate security measures. User-generated content, especially comments and ratings, also plays a core role in trust building.

Potential buyers often read other consumers' shopping experiences and reviews before making decisions, as this first-hand feedback provides valuable references. This is particularly true for emerging brands or products that are being tried for the first time; real reviews can effectively alleviate purchase anxiety and enhance consumers' trust and dependence on the platform <sup>[13]</sup>.

### **3.2. Instant gratification**

With the rapid development of the digital society, "immediate satisfaction" has emerged as a key driver in shopping decision-making. This concept refers to a consumer's mental inclination to acquire the products or services they desire quickly, which is especially important in online shopping situations. E-commerce platforms effectively meet this psychological requirement through various innovative actions, such as optimizing logistics efficiency and providing immediate responses to client needs, significantly enhancing user experience and satisfaction. Major e-commerce platforms like Taobao and Amazon have dramatically improved the shopping experience by employing efficient logistics systems, including "Same Day Delivery" and "Next Day Delivery." Moreover, these platforms have established quick reaction systems and problem-solving platforms, offering comprehensive post-sales support, which strengthens consumers' confidence in their purchases. It is worth noting that the achievement of "immediate satisfaction" encompasses not only the speed of logistics but also the immediate availability of information. Consumers can rapidly access multidimensional data, such as product reviews, high-resolution images, and demo videos, which not only lays a foundation for buying but also encourages immediate shopping <sup>[14]</sup>. Accessing such immediate information can create a powerful impulse to purchase, leading to more impulsive and immediate shopping behavior, reflecting a fundamental shift in consumer behavior in the digital era.

### **3.3. Social influence**

In the digital age, social media plays a pivotal role in customer behavior. When making purchasing decisions, customers rely not only on platform recommendations but also on social networks and social media, which exert significant influence. Key Opinion Leaders (KOLs) and celebrity promoters on platforms like Weibo and Instagram often use their personal charm and professional insights to guide customer choices. User-generated content (UGC) on social media has become a key source for customers to obtain information and evaluate products. When exploring products, customers review not only the official descriptions provided by the brand but also focus on feedback from other customers regarding their shopping experiences and product usage. With the help of this UGC, customers can gain more appropriate feedback and richer information, which helps to strengthen their purchasing decisions.

### **3.4. Emotional drive**

Emotional factors play a central role in customers' purchasing decisions. If a brand can establish an emotional bond with its customers, it significantly enhances its appeal and customer loyalty. In the e-commerce scenario, a brand's promotional strategy not only emphasizes functionality but also enhances its appeal through emotional marketing, interaction, and corporate philosophy. For example, many brands use emotional advertising to promote their corporate tenets, such as sustainable development and social responsibility, to attract customers who resonate with these values. Emotionally driven customers tend to prefer brands that align with their beliefs, even if these brands are priced higher than the market norm. Such emotional connections not only consolidate

customer loyalty to the brand but also help the brand stand out in a highly competitive market <sup>[15]</sup>.

## **4. Changes in the purchase decision process**

### **4.1. Information overload**

Information overload is one of the most representative phenomena in the digital era. When making purchases, consumers are confronted with multiple product options, price comparisons, user reviews, and promotional information. Although the explosion of this information provides a broader foundation for consumer choice, it also leads to “difficult selection” or “decision-making fatigue.” Consumers not only feel overwhelmed when buying something, but this overload also decreases the effectiveness and satisfaction of their decisions.

### **4.2. Impulse buying**

Impulse buying is relatively common in online shopping, especially when limited-time discounts or immediate offers are used as incentives to increase the likelihood of unplanned purchases. Tactics such as flash sales and quantity discounts exploit consumers’ sense of urgency and scarcity, stimulating their propensity to buy. However, while these incremental purchases can lead to short-term growth in platform sales, they may result in lower levels of consumer satisfaction. Since impulsive purchases are usually made for immediate rewards, consumers often feel regret or dissatisfaction, particularly if they realize that the product does not meet their expectations. Therefore, to maintain a long-term competitive position in the market, platforms must also focus on the long-term satisfaction and loyalty of their clients when employing promotional mechanisms to encourage spontaneous shopping.

## **5. Strategies of online retailers**

### **5.1. Simplify navigation and product display strategy**

Firstly, the Adaptive Navigation Framework facilitates clients in finding their favorite products and prevents the confusion and decision-making issues caused by excessive information. A cluttered user interface (UI) layout or complex product details often add to the mental stress of the client, tarnishing the shopping experience. Visual design, such as the simplicity of Apple’s website, provides comfort to clients and eases decision-making. Secondly, refining product presentation enhances the client’s experience. An overabundance of information can mislead consumers, whereas precise and engaging descriptions accompanied by high-quality pictures can expedite the decision-making process. A simplified shopping procedure with a single click and a convenient checkout process further refine the consumer experience. This type of seamless shopping journey allows consumers to focus on their genuine needs, lowers decision barriers, and thereby enhances their conversion performance.

### **5.2. Customized marketing strategy**

Customized marketing is a powerful tool for online sellers to enhance user interaction and conversion rates. By leveraging big data and AI technology, sellers analyze users’ past behaviors, interests, and browsing history to provide tailored product recommendations and targeted advertising. This customized marketing approach optimizes customer experience and improves advertising accuracy and efficiency. Its advantage lies in recommending products that better align with users’ needs and interests, thereby deepening user

engagement. For example, Spotify's personalized playlist recommendations analyze music preferences to create exclusive playlists. Such personalized recommendations based on user data prolong user engagement and enhance the platform's appeal and market competitiveness. Similarly, in the e-commerce sector, customized recommendation systems suggest products based on user browsing patterns, stimulate purchasing desire, and drive platform sales growth.

### **5.3. Customer loyalty program**

Amazon's Prime membership service serves as a typical example of a customer loyalty scheme. With its rapid delivery, exclusive discounts, and features such as video and music streaming, Prime membership has successfully integrated customers into the Amazon ecosystem. Offering diverse membership benefits not only meets the varied needs of consumers but also enhances their reliance on the platform. The membership scheme fosters long-term loyalty to the platform. The points-based system is another common method used in customer loyalty programs. By providing points rewards for every purchase made by consumers, the platform can effectively encourage repeat purchasing behavior. The long-term cumulative impact of these points makes customers feel more satisfied and rewarded when they shop, thus strengthening their commitment to the platform. In addition to points and membership, exclusivity is also an effective means of enhancing client loyalty. By providing exclusive customer service support, personalized shopping experiences, or special discounts to returning customers, the platform helps them feel a unique value, increasing their sense of identity and satisfaction. While enjoying these exclusive services, customers tend to depend more on the platform, thereby forming a consistent consumption pattern.

## **6. Consumer challenges in the digital age**

### **6.1. Data security and privacy protection**

Personalization and ease of use in the digital era have provided customers with an unprecedented experience. Nevertheless, privacy and data security issues are also focal points of public concern. This is based on the collection and analysis of large amounts of personal data, such as search history, purchase history, geographical location, and more. This information helps firms achieve accurate marketing. However, there is growing concern among consumers about potential violations of their privacy. Consumers are becoming increasingly aware of their privacy and are very alert to the dangers of their personal data being misused or disclosed. Not only does this fear erode their confidence in online purchasing platforms, but it also encourages some users to actively limit access to their own data, thereby affecting the delivery of personalized services on the platform. Protecting privacy against information leakage is a necessity for consumers when choosing e-commerce platforms. To meet this challenge, companies have actively adopted multidimensional privacy protection measures to create a safer digital environment. The use of encryption techniques, enhanced identity verification mechanisms, and the establishment of open and transparent privacy policies have become the norm for companies in protecting consumer privacy. Additionally, providing users with greater control over their data and enabling them to decide the level and scope of information exchange has been a major strategy for alleviating distress and enhancing confidence. This not only increases customer trust but also greatly improves the user experience, creating a more harmonious relationship between consumers and platforms.

## **6.2. Decision complexity and information screening**

In the Information Era, customers are confronted with an increasing number of choices, leading to a notable information overload. E-commerce platforms are filled with goods, and price volatility and promotional information are rampant, making it difficult for customers to navigate the vast amounts of data. This state of information overload not only increases the mental burden on consumers but also gives rise to the common phenomenon of selection barriers and decision-making fatigue. These barriers weaken consumers' enjoyment of the purchasing experience and significantly prolong the decision-making cycle, potentially triggering shopping abandonment. Faced with numerous possibilities, it becomes challenging for consumers to differentiate key information from the less relevant, placing them in an information-identifying dilemma and resulting in a steep decline in decision-making effectiveness. Against this backdrop, businesses must be encouraged to offer clearer and more straightforward product information, accompanied by effective navigational tools, to help consumers quickly find their preferred products and ease the decision-making burden. Simplifying the purchasing process can also be an effective tool for resolving decision-making issues. E-business platforms, for instance, have dramatically reduced the time and effort required for customers to search manually by introducing smart detection and personalized referral systems. These platforms are built on a deep understanding of customers' psychological and behavioral preferences, which helps improve decision-making effectiveness and customer satisfaction. In short, information overload poses a significant problem for consumer decision-making. To reduce decision-making burdens and enhance the shopping experience, businesses must optimize the presentation of information and purchasing procedures while providing personalized services. Creating an efficient and personalized shopping environment is essential in the current era of information explosion to enhance consumer trust and loyalty.

## **6.3. Information transparency and trust building**

Information transparency has become a key indicator affecting customer trust in platforms. In online shopping, customers rely on images, descriptions, and user reviews provided by the platform, and information asymmetry can easily lead to a crisis of trust. Inaccurate product descriptions or overly modified images can create disappointment when customers receive the goods, damaging both the shopping experience and their trust in the platform. Trust is particularly important in an environment with transparent information. A lack of transparency often leads to increased dissatisfaction and complaints after transactions.

## **6.4. Psychological pressure and impulse consumption**

In a digital shopping ecosystem, information overload and difficult decisions undoubtedly add to the cognitive burden and mental stress of consumers. In addition to decision-making challenges, customers often feel anxious when faced with a steady stream of advertisements, limited-time offers, and complex demands for priority items. This stress not only diminishes the enjoyable shopping experience but may also lead to impulsive buying or buyer's remorse, significantly affecting the consumer's psychological state. A sense of urgency created by advertisements is a primary cause of psychological stress. Marketing tactics, such as time restrictions and limited stock, compel consumers to make quick purchasing decisions. Many consumers place orders hastily, fearing they might miss out on opportunities, often without careful consideration. While such strategies can boost short-term sales, they can undermine customer confidence in the platform over time, especially if customers feel manipulated by marketing tactics, which can lead to decreased purchasing satisfaction and



loyalty. Additionally, consumers are often influenced by the buying behavior of friends, family, or opinion leaders on social media. Herd behavior encourages them to go along with the crowd, sometimes even leading to the purchase of unnecessary items. Such behavior contradicts reasonable spending and negatively impacts individual finances and long-term purchasing decisions. The mental and social pressures present in a digital environment are complex elements that influence consumer behavior patterns. Businesses should adopt limited-time marketing strategies cautiously, strengthen consumer awareness, and promote smart consumption to create a healthier and more sustainable digital shopping ecosystem. In the era of information explosion, balancing marketing innovation with consumer well-being presents a challenge for companies and industries.

## 7. Conclusion

The digital age has a profound impact on consumer psychology and behavior patterns. Companies need to understand consumer psychology, optimize user experience, and integrate emerging technologies to adapt to the market. Through data analysis, organizations can deepen their understanding of consumer preferences, customize personalized experiences, and improve engagement and satisfaction. Embracing artificial intelligence and big data analysis enables companies to predict market trends and optimize products and services. In summary, companies can enhance their competitiveness, create rich personalized experiences for consumers, and promote the establishment of long-term, mutually beneficial relationships. In the wave of digital transformation, companies and consumers explore together, create value together, and achieve win-win results.

## Disclosure statement

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