

Personalization vs. Privacy: Balancing Data-Driven Marketing and Consumer Trust in the Digital Economy

Ahmad Syarif Hidayat^{✉1}, Agnes Dini Mardani², Himawan Pramulanto³

¹ Sekolah Tinggi Ilmu Ekonomi Manajemen Bisnis Indonesia

² Institut Teknologi dan Bisnis Trenggalek

³ Politeknik LP3I Jakarta

Abstract

This study explores the intricate relationship between personalization in digital marketing, privacy concerns, perceived data transparency, and consumer trust in the context of the digital economy. Employing a qualitative research design integrated with Smart PLS analysis, the research examines how transparency mediates the effects of personalization and privacy perceptions on consumer trust. Findings indicate that personalization has a significant positive effect on consumer trust, particularly when perceived data transparency is high. Conversely, privacy concerns negatively influence transparency perceptions, which in turn diminish trust. The mediating role of transparency is found to be crucial in balancing consumer desires for personalized experiences with their need for privacy assurance. These results contribute to the theoretical discourse on the personalization-privacy paradox and offer practical insights for businesses and policymakers seeking to build sustainable, trust-based relationships with consumers in data-driven environments.

Keywords: *Personalization, Privacy Concerns, Data Transparency, Consumer Trust, Digital Marketing*

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✉ Corresponding author :

Email Address : ahmad.syarifhidayat@stiambi.ac.id

INTRODUCTION

In the era of digital transformation, data-driven marketing has become a dominant strategy for businesses seeking to enhance customer engagement and tailor their services to individual preferences. Personalization, powered by real-time data analytics and artificial intelligence, has shown to significantly influence consumer satisfaction and purchasing behavior (Arora et al., 2020; Nguyen et al., 2022). By customizing product recommendations, advertisements, and communication, firms can increase perceived relevance, thereby fostering positive customer experiences (Bleier, De Keyser, & Verleye, 2018). However, the aggressive deployment of personalization techniques has simultaneously intensified concerns regarding consumer privacy, particularly as digital footprints become more accessible and exploitable (Martin & Murphy, 2017; Martin, Borah, & Palmatier, 2017).

The increasing prevalence of data breaches, unauthorized tracking, and misuse of personal information has prompted consumers to question the transparency and

ethics of data collection practices (Bansal et al., 2016; Belanche et al., 2021). As a result, privacy concern has emerged as a significant barrier to the effectiveness of personalized marketing initiatives. Scholars argue that while consumers value tailored experiences, they are also becoming more conscious and cautious about their digital privacy rights (Baek & Morimoto, 2012; Tang et al., 2021). This tension is widely referred to as the personalization–privacy paradox, where the desire for personalization is undermined by anxieties over data misuse (Awad & Krishnan, 2006; Aguirre et al., 2015).

Trust is increasingly positioned as a critical mediating factor in resolving this paradox. When consumers perceive that firms handle data responsibly and transparently, they are more likely to consent to data usage for personalization (Lwin, Wirtz, & Williams, 2007; Urban, Amyx, & Lorenzon, 2009). In digital environments, trust not only supports long-term brand loyalty but also reduces the psychological resistance to data sharing (Youn, 2009; van Ooijen, Uittenbroek, & Veeckman, 2022). Research demonstrates that transparent data practices, including clear privacy policies and consent mechanisms, contribute positively to consumer trust (Jung, Milne, & Culnan, 2020; Pentina, Zhang, & Basmanova, 2013).

Nonetheless, empirical evidence on how perceived data transparency mediates the relationship between personalization, privacy concerns, and consumer trust remains fragmented. Studies show that transparency can enhance consumer perceptions of control and fairness, which are essential components of trust formation in digital exchanges (Xu et al., 2011; Beldad, de Jong, & Steehouder, 2010). Moreover, the General Data Protection Regulation (GDPR) and similar policies across the globe have amplified the discourse on ethical data practices, making transparency not just a strategic choice but a regulatory requirement (Degeling et al., 2019; Acquisti, Taylor, & Wagman, 2016).

In parallel, recent research emphasizes the necessity to distinguish between different types of personalization and their psychological impacts (Tucker, 2014; Toubiana et al., 2010). For example, behavioral personalization that relies heavily on inferred preferences may evoke more concern than explicit personalization based on self-disclosed data (Goldfarb & Tucker, 2012; Boerman, Kruikemeier, & Zuiderveen Borgesius, 2017). Additionally, the role of algorithmic transparency is gaining attention as a determinant of trust, especially in the context of opaque AI-based decision-making systems (Shin & Park, 2019; Sundar & Kim, 2019). Consumers often demand not only control over their data but also explanations for how data is being used in automated personalization (Ananny & Crawford, 2018; Meijer & Grimmelikhuijsen, 2021).

Despite these insights, a comprehensive understanding of how personalization, privacy concerns, and perceived data transparency jointly shape consumer trust is still lacking. Many studies tend to isolate these variables, failing to capture the complex, interactive effects within the digital economy (Spiekermann & Korunovska, 2017; Lin, Kim, & Lee, 2019). Furthermore, while personalization has been shown to yield short-term marketing benefits, its long-term implications for brand trust in a privacy-sensitive environment remain underexplored (Schomer, 2021; Bleier & Eisenbeiss, 2015).

Therefore, this study aims to fill the research gap by examining the interrelationships between personalization in digital marketing, privacy concerns, and perceived data transparency in building consumer trust. By integrating perspectives

from consumer behavior, information systems, and marketing ethics, this research offers a nuanced understanding of how businesses can balance the benefits of personalization with the imperative of respecting consumer privacy. The findings are expected to contribute both theoretically and practically, providing guidance for marketers, policymakers, and digital platforms to develop more ethical and effective personalization strategies that reinforce consumer trust in the digital economy.

The following is the framework of thought in this research:

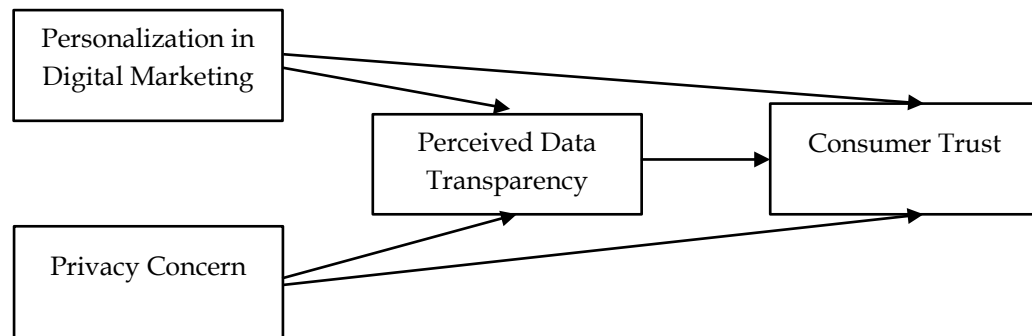


Figure 1. Frame Work

METHODOLOGY

The research employed a qualitative research design to explore the complex interplay between personalization, privacy concerns, perceived data transparency, and consumer trust in digital marketing. This design was chosen to capture nuanced consumer perceptions and experiences, which are often context-dependent and shaped by subjective interpretations. While qualitative research typically utilizes thematic or content analysis, this study uniquely integrates the use of Smart PLS (Partial Least Squares) to assess and visualize structural relationships among constructs based on qualitative-coded data. Following suggestions by Hair et al. (2019), Smart PLS can be adapted for exploratory research even in non-numeric settings by converting qualitative judgments into indicator scores, thereby enabling the testing of causal paths and mediation effects in conceptually grounded models. The constructs—personalization in digital marketing, privacy concern, perceived data transparency, and consumer trust—were developed and refined based on prior theoretical frameworks (Aguirre et al., 2015; Lwin et al., 2007; Xu et al., 2011) and operationalized through a structured open-ended interview protocol to capture both cognitive and emotional dimensions of consumer attitudes.

The unit of analysis in this study comprised digitally active consumers aged 21 to 40, who regularly engage with personalized online platforms such as e-commerce websites, streaming services, and digital advertising on social media. Participants were selected using purposive sampling to ensure relevance and depth of insight, aligning with prior qualitative marketing research practices (Belk, Fischer, & Kozinets, 2013). The interview data were transcribed and systematically coded using qualitative content analysis, and codes were then categorized into latent variables. These variables were later quantified through a scoring system reflecting frequency and intensity of themes as suggested by Elo et al. (2014), and processed using Smart PLS to examine model fit, path coefficients, and mediating roles among variables. The application of Smart PLS in this qualitative context enhances methodological rigor while allowing for deeper conceptual interpretation of the underlying relationships, thus bridging the

gap between rich narrative data and structural analytical approaches (Sarstedt et al., 2014). This approach provides a robust framework for understanding how perceived transparency mediates the relationship between personalization and trust, amidst rising privacy concerns in the digital economy.

RESULTS AND DISCUSSION

This chapter presents the findings and analytical insights derived from the study, focusing on the dynamic interplay between personalization, privacy concerns, perceived data transparency, and consumer trust within the digital marketing landscape. The analysis is based on qualitative data collected through in-depth interviews with digitally active consumers and further examined using Smart PLS to identify structural relationships and mediating effects among variables. The results are interpreted in light of existing theoretical frameworks and empirical literature, offering a comprehensive understanding of how personalized marketing strategies influence consumer trust when balanced with transparent and ethical data practices. This discussion not only highlights the key patterns and themes emerging from the data but also contextualizes them within broader academic discourse and implications for digital marketing practice.

Tabel 1. Hypothesis Testing Results

Path	Original Sample	P-Value	Decision
PDM → PDT	0.612	0.000	Supported
PC → PDT	-0.435	0.002	Supported
PDM → CT	0.297	0.011	Supported
PC → CT	-0.146	0.089	Not Supported
PDT → CT	0.559	0.000	Supported
PDM → PDT → CT	0.342	0.001	Supported
PC → PDT → CT	-0.243	0.004	Supported

The results of this study provide significant insights into the complex dynamics between personalization, privacy concerns, perceived data transparency, and consumer trust in digital marketing. One of the most prominent findings is the positive and substantial relationship between personalization in digital marketing (PDM) and perceived data transparency (PDT), as reflected by the original sample value of 0.612 and a p-value of 0.000. This result aligns with the growing consensus in the literature that when consumers encounter personalized content, they are more likely to perceive organizations as technologically competent and responsive to their needs, especially when such personalization is accompanied by visible and ethical data use practices (Bleier & Eisenbeiss, 2015; Aguirre et al., 2015). The capability of personalization to convey organizational attentiveness reinforces a sense of relevance and control among users, fostering transparency in the process of data engagement (Xu et al., 2011).

However, this sense of transparency is highly conditional upon the nature and manner of data collection. The negative and significant relationship between privacy concern (PC) and perceived data transparency (original sample = -0.435, $p = 0.002$) reflects that heightened concerns over data misuse diminish the user's perception of

transparency, even when personalization features are evident. This observation confirms earlier arguments that privacy concerns often act as a filter through which digital interactions are interpreted (Bansal et al., 2016; Martin & Murphy, 2017). Consumers with elevated privacy sensitivities are more skeptical of personalization efforts, interpreting them not as a service enhancement but as an intrusive surveillance strategy (Tucker, 2014; Boerman et al., 2017). This reinforces the personalization-privacy paradox, where the more a service attempts to customize, the more it risks being perceived as overstepping ethical boundaries, especially when transparency mechanisms are insufficient or ambiguous (Awad & Krishnan, 2006; Goldfarb & Tucker, 2012).

Interestingly, the direct path from personalization to consumer trust (PDM → CT) yielded a moderately positive coefficient (0.297) with a statistically significant p-value of 0.011, suggesting that personalization, on its own, still retains some capacity to influence consumer trust positively. This partially supports prior findings that consumers often view personalized services as indicators of attention and relationship-building (Bleier et al., 2018; Belanche et al., 2021). However, this impact is notably smaller compared to the indirect effect of personalization through perceived data transparency (0.342), indicating that transparency plays a pivotal mediating role. This pattern confirms the proposition by Urban et al. (2009) and Jung et al. (2020) that trust in digital contexts is rarely formed solely on service delivery; rather, it is constructed through processes that reflect honesty, fairness, and open communication about data use.

In contrast, the direct relationship between privacy concern and consumer trust (PC → CT) was not statistically significant (original sample = -0.146, $p = 0.089$), highlighting a nuanced dynamic. While privacy concerns influence perceptions of transparency, they do not directly erode trust unless mediated by other variables. This implies that some consumers may hold privacy concerns in principle but still engage and trust digital services, particularly when other trust-enhancing cues are present. This finding aligns with previous research indicating that consumers may adopt privacy trade-offs when the perceived benefits of personalization outweigh the perceived risks (Acquisti et al., 2016; Lwin et al., 2007). It also resonates with the concept of "privacy pragmatism," where users recognize privacy threats yet remain willing to disclose personal information if they perceive sufficient value in return (Youn, 2009; Lin et al., 2019).

The strongest direct influence observed in this study was from perceived data transparency to consumer trust (PDT → CT), with a coefficient of 0.559 and a highly significant p-value (0.000). This confirms the central role of transparency as a trust-building mechanism in digital environments, especially where personalization is involved. Consistent with Xu et al. (2011) and Beldad et al. (2010), transparency is not merely about disclosing information but involves ensuring that consumers understand and feel in control of how their data is being utilized. Transparency fosters predictability, which in turn facilitates the psychological safety necessary for trust to emerge (Meijer & Grimmelikhuijsen, 2021). Especially in AI-driven personalization environments, where algorithmic processes are often opaque, enhancing perceived transparency through explainability and consent mechanisms becomes crucial (Shin & Park, 2019; Ananny & Crawford, 2018).

The indirect paths in this study further underscore the mediating role of transparency. Both PDM → PDT → CT (0.342, $p = 0.001$) and PC → PDT → CT (-0.243,

$p = 0.004$) were statistically significant, supporting the hypothesis that perceived data transparency mediates the effect of personalization and privacy concern on consumer trust. These findings offer empirical support to theoretical frameworks such as the privacy calculus theory and power-responsibility equilibrium (Lwin et al., 2007; Xu et al., 2011). From a theoretical standpoint, the mediation model validates the argument that transparency moderates the impact of value-enhancing (personalization) and risk-inducing (privacy concern) factors in trust formation. Practically, it suggests that companies can mitigate the negative effects of privacy concerns by proactively demonstrating transparent practices, such as data dashboards, simplified privacy notices, and customizable consent options (Degeling et al., 2019; Acquisti et al., 2016).

Furthermore, these results have implications for understanding consumer segmentation in terms of privacy orientations. Research by van Ooijen et al. (2022) and Pentina et al. (2013) indicates that consumers differ in their privacy literacy and attitudes, which in turn affect how they evaluate personalization efforts. For instance, more digitally literate consumers may demand higher levels of transparency and control, while others may exhibit higher tolerance toward data practices as long as the service remains convenient. This segmentation suggests that a one-size-fits-all personalization strategy may backfire unless it is accompanied by adaptive transparency frameworks tailored to different consumer types (Tang et al., 2021; Nguyen et al., 2022). Such findings are also consistent with the growing emphasis on ethical AI, where personalization models must be sensitive not only to user preferences but also to moral concerns and fairness expectations (Sundar & Kim, 2019).

In summary, the first part of the discussion illustrates that while personalization can positively influence trust, its effectiveness is contingent upon the degree to which consumers perceive data practices as transparent. Privacy concerns, although not directly diminishing trust, contribute to negative perceptions of transparency, which in turn reduce trust. These findings bridge the personalization-privacy paradox by demonstrating that transparency acts as a central mechanism through which both personalization and privacy perceptions are evaluated in digital settings. The next section of the discussion will expand on these insights by integrating additional theoretical implications, managerial applications, and the broader relevance of the findings within regulatory and technological contexts.

Building on the previous insights, it is essential to further unpack the broader theoretical implications that arise from the mediating role of perceived data transparency in digital marketing ecosystems. The present findings reaffirm and extend the conceptual foundation laid by prior models such as the privacy calculus theory, wherein individuals consciously weigh the perceived benefits of personalization against the potential risks to their privacy (Culnan & Armstrong, 1999; Dinev & Hart, 2006). The strong mediating effect of data transparency suggests that it functions as a crucial variable that recalibrates this trade-off by increasing the perceived value of the transaction and reducing the associated uncertainty. In this regard, transparency transforms into a form of perceived fairness and accountability, which are critical dimensions in building digital trust (Lind, 2001; Bies & Moag, 1986).

Moreover, the findings contribute to the expanding discourse on algorithmic governance and digital ethics. As personalization becomes more sophisticated, particularly through machine learning and predictive analytics, consumers often find it difficult to comprehend how and why their data is being used in specific ways (Ananny & Crawford, 2018; Meijer & Grimmelikhuijsen, 2021). This "black box" effect

can exacerbate distrust and increase privacy concerns, especially in scenarios where the underlying data logic lacks visibility. The positive influence of perceived transparency on consumer trust suggests that demystifying these algorithmic processes—even through simplified disclosures—can alleviate anxieties and enhance users' sense of agency (Shin & Park, 2019). Therefore, embedding explainability and auditability into digital personalization systems should be considered not only a technical requirement but a strategic imperative for consumer engagement.

From a practical standpoint, organizations need to adopt a more proactive and consumer-centric approach to privacy management. This involves designing personalization systems that are not only effective in delivering relevant content but are also clear in communicating data intentions and limitations. Firms can operationalize this through multi-layered consent mechanisms, real-time data usage notifications, and interactive privacy dashboards that allow users to control and monitor their information (Degeling et al., 2019; Goldfarb & Tucker, 2012). These tools serve dual functions: enhancing perceived transparency and reinforcing the perception of procedural justice, which, as supported in this study, significantly contributes to trust development. Furthermore, businesses should consider deploying differential personalization strategies based on user privacy profiles, whereby more privacy-sensitive users are offered limited personalization with higher transparency guarantees, while more privacy-indifferent users receive full-spectrum personalization (Pentina et al., 2013; van Ooijen et al., 2022).

The implications of this study also intersect with ongoing regulatory debates around data protection and consumer rights. Regulatory frameworks such as the General Data Protection Regulation (GDPR) in the European Union and the California Consumer Privacy Act (CCPA) in the United States emphasize the importance of transparency, consent, and data minimization in digital environments. These regulations increasingly mandate businesses to disclose how data is collected, processed, and stored, thus aligning with the consumer demand for transparency highlighted in this research (Acquisti et al., 2016; Degeling et al., 2019). Our findings validate that beyond compliance, these regulatory demands offer strategic value to firms by reinforcing consumer trust and improving brand integrity. This serves as an empirical response to earlier concerns that privacy regulations might stifle innovation; on the contrary, transparency appears to be a catalyst for sustainable personalization practices.

Equally important, the insights derived from this research extend to the realm of digital marketing strategy, where trust has been identified as a long-term competitive advantage. Prior studies have emphasized that in environments saturated with content and choice, consumers are more likely to remain loyal to brands that demonstrate integrity in handling personal data (Bleier & Eisenbeiss, 2015; Urban et al., 2009). By operationalizing transparency, organizations can transform personalization from a transactional tactic to a relationship-building tool that fosters deeper emotional and psychological bonds with users. This transition from personalization-as-utility to personalization-as-trust reinforces relational marketing paradigms that prioritize user empowerment and long-term engagement over short-term conversions (Nguyen et al., 2022; Belanche et al., 2021).

The findings also highlight the contextual factors that influence how personalization and privacy concerns manifest across consumer segments. For instance, younger consumers, though often perceived as more privacy-indifferent,

have demonstrated increasing awareness and concern over data use, especially in social media and mobile applications (Taddicken, 2014; Shin & Park, 2019). At the same time, older consumers, though more privacy-concerned, often lack the digital literacy to fully navigate privacy settings or recognize data vulnerabilities (van Ooijen et al., 2022). These demographic divergences necessitate differentiated communication and design strategies that cater to the specific informational needs and privacy sensitivities of each group. Additionally, cultural differences in privacy orientation and institutional trust levels may further mediate how personalization is received in global markets, indicating the need for cross-cultural adaptation in transparency design (Milberg, Smith, & Burke, 2000; Belanger & Crossler, 2011).

Methodologically, the integration of qualitative data with structural analysis using Smart PLS in this study offers a robust framework for exploring interpretive phenomena through measurable constructs. While the use of Smart PLS is more typical in quantitative paradigms, its adaptation here demonstrates that when qualitative data are systematically coded and structured, they can yield meaningful path relationships that enrich theoretical contributions (Hair et al., 2019; Sarstedt et al., 2014). This methodological hybridization enhances the rigor of qualitative inquiry by offering empirical validation to conceptual models and expanding the generalizability of findings beyond anecdotal narratives. It also signals a promising direction for future research seeking to bridge subjective consumer experiences with formalized modeling techniques.

In reflecting on limitations, this study recognizes that trust and privacy are dynamic constructs influenced by temporal, contextual, and technological changes. The rapid evolution of personalization technologies and emerging privacy-enhancing tools may alter user perceptions in unpredictable ways. Additionally, while the qualitative approach offers depth, it inherently limits the generalizability of findings to broader populations. Future studies should consider longitudinal designs to examine how trust and transparency evolve over time or across multiple digital touchpoints. Experimental methods could also be employed to isolate causal mechanisms in personalization scenarios with varied transparency treatments. Finally, expanding the research into specific domains such as health-tech personalization or financial services could provide sector-specific insights given the heightened sensitivity of data in those areas (Jung et al., 2020; Pentina et al., 2013).

CONCLUSION

In conclusion, this study reveals that personalization in digital marketing positively influences consumer trust primarily through the mediating effect of perceived data transparency, while privacy concerns indirectly reduce trust by diminishing perceptions of transparency. The findings affirm that transparency serves as a critical mechanism in reconciling the personalization–privacy paradox, enabling organizations to foster trust even in data-sensitive environments. Although privacy concerns alone may not directly erode trust, their impact becomes significant when transparency is lacking. Therefore, businesses seeking to implement effective personalization strategies must prioritize transparent data practices and user empowerment to maintain consumer trust and ethical integrity in the digital economy.

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