

## Article

# Consumer Behavior in the Age of Algorithmic Marketing: Insights from Interaction with Social Commerce Platforms

Jingping Xie <sup>1,\*</sup><sup>1</sup> University of Hertfordshire, Hatfield, Hertfordshire, United Kingdom

\* Correspondence: Jingping Xie, University of Hertfordshire, Hatfield, Hertfordshire, United Kingdom

**Abstract:** With the rapid advancement of data-driven technologies, algorithmic marketing has become a pivotal force reshaping consumer behavior in the digital age. This review explores how algorithmic systems embedded within social commerce platforms—such as TikTok, Instagram Shops, and Rednote—transform traditional consumer decision-making by delivering hyper-personalized content and facilitating social influence. Key mechanisms including recommendation engines, real-time content curation, and influencer endorsements are analyzed to understand their impact on consumer heuristics, emotional engagement, and social proof dynamics. The review also addresses the critical tension between personalization and privacy, highlighting consumer dilemmas in balancing relevance with data surveillance concerns. Emerging phenomena such as algorithm-driven micro-trends and the importance of ethical, transparent platform design are discussed. Finally, the paper identifies research gaps related to cultural variation, long-term psychological effects, and calls for interdisciplinary approaches integrating behavioral science and AI ethics. The findings underscore the necessity of human-centered, responsible algorithmic marketing to foster trust and autonomy in digital marketplaces.

**Keywords:** algorithmic marketing; consumer behavior; social commerce; personalization; privacy; social influence

## 1. Introduction

In the era of digital transformation, algorithmic marketing has emerged as a dominant force in shaping how brands interact with consumers. Unlike traditional marketing approaches that rely on broad demographic segmentation, algorithmic marketing leverages vast volumes of user data—ranging from browsing histories and engagement patterns to social connections and real-time behaviors—to deliver highly personalized and dynamic promotional content. This data-driven personalization has redefined the consumer experience, allowing marketers to anticipate needs, optimize timing, and adapt content in real time. As machine learning algorithms become increasingly sophisticated, marketing is no longer merely reactive but anticipatory, shaping consumer desires before they are fully articulated. From an organizational perspective, broader technological and market shifts—including the rise of algorithmic systems—have triggered strategic transformation in many enterprises, prompting businesses to restructure their operations, embrace digital innovation, and realign marketing functions with intelligent data systems [1].

Parallel to the rise of algorithmic marketing is the rapid evolution of social commerce platforms. Platforms such as TikTok, Instagram Shops, and Rednote have fundamentally transformed the online shopping landscape by blending social media engagement with seamless e-commerce functionalities. Unlike traditional e-commerce websites, social commerce platforms rely heavily on algorithmic content curation to present users with products embedded in relatable, entertaining, or aspirational content. These platforms encour-

Received: 30 June 2025

Revised: 09 July 2025

Accepted: 24 July 2025

Published: 02 August 2025



**Copyright:** © 2025 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

age interaction through features like livestream shopping, influencer-driven recommendations, and algorithmically tailored feeds, creating a highly immersive and persuasive digital shopping environment. Prior studies have shown that such algorithm-enabled personalization significantly enhances user engagement and retention on digital platforms, reinforcing the cyclical relationship between data analytics and consumer responsiveness [2].

Understanding consumer behavior within this algorithm-driven ecosystem is both timely and critical. Traditional models of consumer decision-making, which often assume rationality and linear information processing, may not adequately account for the spontaneous, emotion-driven, and socially influenced nature of behavior on algorithmic platforms. The integration of machine learning algorithms into the consumer journey introduces a new layer of complexity, where choices are co-constructed by consumers and algorithmic agents in real time.

Despite the growing relevance of this topic, existing literature offers limited insights into how algorithms influence moment-to-moment consumer decisions within social commerce environments. This review seeks to fill that gap by synthesizing current research on algorithmic marketing and its psychological, behavioral, and social implications for consumers. It begins with an overview of algorithmic marketing mechanisms and social commerce dynamics, then explores how these systems shape consumer behavior, and concludes by identifying emerging trends, challenges, and directions for future research.

## 2. Algorithmic Marketing: A New Paradigm in Consumer Engagement

### 2.1. Definition and Mechanisms

Algorithmic marketing refers to the use of data-driven algorithms—often powered by machine learning and artificial intelligence—to automate, personalize, and optimize marketing content and delivery. It marks a significant departure from traditional marketing models that relied on demographic segmentation and static messaging. In algorithmic systems, consumer data is continuously collected, analyzed, and acted upon to deliver personalized marketing experiences in real time [2].

The core mechanisms of algorithmic marketing include recommendation engines, personalized content feeds, retargeting campaigns, and predictive analytics. Recommendation systems can be either content-based (analyzing item characteristics) or collaborative filtering (based on user behavior similarities). Retargeting leverages cookies and user activity to re-engage potential buyers across platforms. Predictive analytics, meanwhile, forecast future behavior based on patterns in past interactions. Table 1 illustrates the key technological components of algorithmic marketing and their roles in shaping the consumer journey.

**Table 1.** Key Mechanisms of Algorithmic Marketing.

Mechanism	Function	Example Platform Use Case
Recommendation Engine	Suggests products/content based on user behavior and similarity models	Amazon's "You May Also Like"
Personalized Feeds	Dynamically curates content for each user	TikTok's "For You" page
Retargeting	Delivers ads to users who previously interacted with content	Facebook Pixel ad re-targeting
Predictive Analytics	Anticipates future needs to optimize offers and timing	Spotify's Discover Weekly playlist

These mechanisms are often integrated into larger marketing platforms that operate across multiple channels—including mobile apps, web platforms, email, and even smart

devices. In the context of social commerce, these technologies serve not only to recommend products, but also to curate aesthetic content, personalize influencer suggestions, and determine the most effective ad formats for different users.

## 2.2. Shift from Passive to Proactive Marketing

The rise of algorithmic marketing has shifted the landscape from passive audience targeting to proactive, behavior-responsive engagement. Traditional marketing often relied on periodic campaigns scheduled uniformly for segmented audiences. In contrast, algorithmic marketing enables hyper-personalization—real-time adjustments to content based on an individual's digital footprint, social behavior, and even mood inferred through language cues or facial expression analysis.

This shift is evident in how consumers engage with platforms such as Instagram or Rednote, where algorithmically curated feeds align with personal tastes, shopping preferences, and consumption rhythms [3]. Consumers no longer seek information actively; instead, platforms push tailored content that anticipates needs. For instance, an individual casually watching a skincare tutorial may soon be served personalized ads for moisturizers previously searched on another app—demonstrating seamless, cross-platform predictive integration. Table 2 contrasts traditional and algorithmic marketing models, emphasizing the changes in targeting precision, content delivery, and user interactivity.

**Table 2.** Traditional vs. Algorithmic Marketing.

Dimension	Traditional Marketing	Algorithmic Marketing
Targeting Approach	Demographic Segmentation	Behavioral & Real-Time Personalization
Content Timing	Fixed Schedule	Dynamic, Context-Aware
User Role	Passive Receiver	Active Data Contributor
Feedback Loop	Delayed and Aggregated	Instant and Individualized
Content Format	Static (TV, Print, Web)	Adaptive (Video, Stories, Livestreams)

This transformation has also changed how companies strategize and allocate marketing budgets. A/B testing, dynamic creative optimization (DCO), and multichannel attribution modeling have become standard practices in campaign management. Marketers can now allocate resources not just by audience group, but by moment, medium, and behavioral prediction.

## 2.3. Ethical and Psychological Considerations

Despite its efficiency, algorithmic marketing presents critical ethical and psychological challenges. One primary concern is consumer manipulation. Algorithms may steer individuals toward decisions not necessarily aligned with their best interests but rather with platform profit motives [4]. Features like autoplay, infinite scrolling, or hyper-targeted emotional appeals can exploit cognitive biases and reduce users' sense of agency.

Another issue is algorithmic bias, which can result from skewed training data or opaque optimization criteria. For example, if certain user profiles are historically less likely to convert, the system may under-represent them in recommendations, thereby reinforcing socioeconomic inequalities. This is particularly concerning in sectors like finance, healthcare, or education, where algorithmic exclusion may have real-world consequences [5].

Psychologically, the algorithmic environment fosters a sense of ambient persuasion—consumers are subtly and continuously nudged without conscious awareness. This can lead to compulsive behaviors, such as doomscrolling or impulse buying, especially in emotionally charged contexts. The filter bubble effect also narrows users' exposure to diverse viewpoints and product alternatives, limiting informed choice.

Finally, issues of privacy and transparency loom large. While platforms claim to use data responsibly, most consumers lack understanding of what data is collected, how it is

used, and how to opt out. Regulatory efforts like GDPR and the California Consumer Privacy Act have sought to enforce greater accountability, but enforcement and user awareness remain uneven [6].

As algorithmic marketing continues to evolve, balancing personalization with ethical responsibility and user autonomy will be a defining challenge for both marketers and platform designers.

### 3. The Rise of Social Commerce Platforms

#### 3.1. What Is Social Commerce?

Social commerce refers to the convergence of social media engagement and online shopping, where users discover, evaluate, and purchase products directly within social media platforms. Unlike traditional e-commerce—where consumers search for specific products on dedicated retail websites—social commerce embeds purchasing opportunities in community-based and content-driven interactions. This model is not only transactional but also relational, emphasizing trust, shared experience, and peer influence.

Key distinctions include the social-first orientation, where users encounter products through lifestyle content, influencer endorsements, or algorithmically surfaced trends rather than search queries. For instance, a skincare product might be introduced through a makeup tutorial on TikTok, a travel blogger's photo on Instagram, or a user review on Rednote. In all these cases, the line between content and commerce is blurred, and the purchasing process is shortened, often to a single click within the app.

Several platforms have become frontrunners in social commerce innovation. TikTok Shop allows real-time product promotion during livestreams; Rednote merges user-generated content with direct shopping links; Facebook Marketplace connects users for local peer-to-peer transactions; and Instagram Checkout enables in-app purchases without redirecting to external websites [7]. These platforms exemplify the “see now, buy now” culture driving impulse purchases through algorithmic exposure.

#### 3.2. Key Features and Technological Infrastructure

The success of social commerce lies in its ability to seamlessly merge entertainment, community, and commerce. Central to this are three technological pillars:

**Livestreaming Commerce:** Real-time product showcases by influencers or brands enable viewers to ask questions, see demonstrations, and receive flash deals—creating urgency and social proof [8]. Platforms like Douyin (Chinese TikTok) have made this format mainstream in Asia, with Western counterparts catching up rapidly.

**Influencer and KOL Marketing:** Key Opinion Leaders (KOLs) and micro-influencers play a pivotal role in driving purchase decisions. Their perceived authenticity and cultural relevance often outweigh traditional advertising. Algorithmic tools help match influencers with target audiences and track campaign effectiveness.

**Algorithmic Content Ranking:** AI-driven algorithms prioritize content based on user interest, engagement history, and social signals. This means commercial content can reach highly receptive audiences without explicit targeting. For example, Instagram's Explore page or TikTok's “For You” feed often surface viral shopping content tailored to individual preferences.

The integration of content and commerce is further supported by deep-learning models that personalize user feeds, optimize ad placements, and detect harmful or low-quality content in real time.

Artificial intelligence also plays a role in content moderation, ensuring that promotions comply with platform policies and local regulations. Image recognition and natural language processing tools help detect misleading claims or prohibited products, while recommendation systems are trained to balance engagement with safety and compliance.

Ultimately, the rise of social commerce represents a fundamental shift in how consumers interact with digital marketplaces—not as isolated buyers but as members of dynamic, algorithmically shaped communities [9]. As platforms evolve, the boundaries between content creation, consumption, and commercial transaction continue to dissolve.

#### 4. Consumer Behavior in the Algorithmic Environment

In algorithmically mediated digital environments, consumer behavior is shaped not only by personal preferences but also by a complex interplay of social signals, emotional design, and machine-driven cues. Algorithms have become not just facilitators of content delivery but active participants in shaping decisions, emotions, and patterns of engagement.

##### 4.1. Decision-Making and Algorithmic Influence

Consumer decision-making in digital environments often relies on heuristics—mental shortcuts that simplify complex choices. When faced with an overwhelming amount of information, consumers lean on algorithmic cues such as popularity indicators, relevance rankings, and recommendation tags to guide their behavior.

Algorithms manipulate the choice architecture by curating the order, visibility, and perceived value of items. A product ranked first in a list or labeled “trending” may receive significantly more attention than a similar item ranked lower. Personalization signals—such as “Recommended for You” or “Because You Watched”—also create a sense of relevance and familiarity, further reinforcing consumer preference. Table 3 outlines key algorithmic cues and how they shape digital decision-making.

**Table 3.** Algorithmic Cues in Consumer Decision-Making.

Algorithmic Cue	Description	Behavioral Impact
Popularity Indicators	Likes, views, purchase counts	Increases perceived credibility
Ranking and Order	Placement in feed or search results	Anchors attention; promotes top items
Personalization Labels	“For You,” “Recommended,” “Picked for You”	Enhances trust and relevance
Urgency Signals	Countdown timers, low-stock alerts	Triggers fast decision-making
Social Tagging	“Others also bought” or “Friends liked”	Leverages herd behavior

These mechanisms not only increase engagement but also reduce decision fatigue—though they may do so at the expense of informed, autonomous choice.

##### 4.2. The Role of Social Influence

In the algorithmic ecosystem, social influence is algorithmically amplified. Platforms prioritize peer reviews, influencer endorsements, and user-generated content (UGC) because such content generates higher engagement and perceived authenticity. Algorithms further enhance this by elevating content that aligns with users’ prior engagements or peer networks—a phenomenon rooted in homophily (the tendency to associate with similar others).

This reinforcement loop can lead to a strong sense of social proof, where users rely on visible signals of others’ behavior to guide their own. For example, a product with many 5-star reviews or a beauty routine endorsed by a popular influencer is more likely to be trusted and purchased—regardless of the buyer’s own prior knowledge or preference. Table 4 compares types of social influence and their algorithmic amplification effects.



**Table 4.** Social Influence Mechanisms and Algorithmic Amplification.

Type of Social Influence	Description	Algorithmic Amplification Mechanism
Peer Reviews	Feedback from other users	Featured reviews, sentiment sorting
Influencer Endorsements	Promotion by KOLs or micro-influencers	Boosted by engagement metrics, hashtags
UGC (Photos/Videos)	User-shared product experiences	Prioritized in feeds, embedded in ads
Social Sharing Behavior	Likes, reposts, comments	Triggers upward ranking in feed
Network Homophily	Shared preferences within social groups	Echo chambers formed via interest graphs

In this environment, the consumer's social context is not just a backdrop to decision-making—it is actively curated and reinforced by the algorithm itself.

#### 4.3. Emotional and Psychological Engagement

Beyond rational decision-making and social validation, emotional engagement plays a central role in shaping consumer behavior in algorithmic environments. Platforms increasingly deploy emotionally resonant content—such as short-form storytelling, aesthetic visuals, and relatable micro-moments—to create a sense of intimacy and affective connection [10].

This content often activates dopaminergic feedback loops, in which users receive quick bursts of emotional satisfaction through likes, shares, and algorithmic “rewards” (e.g., being featured on a page or receiving personalized suggestions). These loops encourage compulsive scrolling, impulsive buying, and prolonged platform engagement.

Livestream shopping events, for instance, often combine urgency, interactivity, and narrative to create an emotionally charged purchasing experience. The sense of community and immediacy fosters both emotional bonding and conversion. Table 5 summarizes emotional triggers and their psychological effects in algorithmic marketing.

**Table 5.** Emotional Triggers and Psychological Responses in Digital Commerce.

Emotional Trigger	Example	Psychological Effect
Aesthetic Appeal	Beautiful product shots, mood filters	Enhances perceived value, desire
Narrative Storytelling	“Before & after” videos, testimonials	Builds empathy and memory retention
Scarcity/Exclusivity	Limited drops, countdowns	Triggers urgency and fear of missing out
Real-Time Interaction	Livestream chats, reactions	Increases immersion and perceived control
Reward Feedback	Likes, comments, follow-backs	Reinforces behavior via dopamine release

These emotional dynamics are not accidental—they are engineered through data-informed creative strategies that learn and adapt to each user's psychological profile.

In sum, the algorithmic environment reshapes consumer behavior across multiple dimensions—from how decisions are made, to how influence is experienced, to how emotions are evoked and monetized. Recognizing these shifts is essential for marketers, regulators, and consumers alike, as the boundaries between persuasion and manipulation become increasingly blurred.

## 5. Emerging Patterns and Insights

As consumers increasingly interact with algorithmic systems, a series of novel behavioral patterns and strategic considerations have emerged. These insights not only reflect shifting digital consumer expectations but also signal deeper transformations in the dynamics of marketing, privacy, and platform engagement [11].

### 5.1. Personalization vs. Privacy: The Consumer Dilemma

The growing sophistication of personalization algorithms—driven by behavioral data, contextual signals, and machine learning—has made online experiences more relevant than ever. Yet this relevance comes at a cost: the perceived erosion of privacy.

Consumers often face a dilemma: on the one hand, they enjoy hyper-personalized product recommendations, curated content, and seamless interactions; on the other, they grow increasingly aware of being surveilled, tracked, and profiled. This tension creates an ambivalent engagement pattern: users might continue using a platform while harboring mistrust or unease about data collection practices.

Studies have shown that privacy concerns can significantly dampen engagement, especially among younger users who are digitally literate and skeptical of opaque algorithms. The paradox is that personalization requires data—but the more data platforms gather, the more vulnerable they become to backlash or regulatory scrutiny.

Brands and platforms must now balance data-driven optimization with user trust. Transparency about data usage, opt-in policies, and clear communication of personalization benefits have become critical to sustaining long-term consumer loyalty.

### 5.2. Micro-Trends and Algorithm-Driven Fads

In the age of algorithmic curation, trends no longer emerge slowly through broad cultural shifts—they explode and dissipate in short bursts of virality, often within hours or days. These “micro-trends” or “algorithmic fads” are driven by the mechanics of recommender systems that amplify specific content based on early engagement signals.

A viral makeup product, a cooking hack, or a niche fashion aesthetic can gain massive visibility through accidental alignment with algorithmic momentum, even without coordinated marketing. These micro-moments of collective attention generate instant commercial opportunity—but they also pose a challenge: how can brands keep pace with ever-shifting algorithmic trends?

The ephemerality of micro-trends means that marketers must be agile, responsive, and experimental. Static, long-term campaigns are increasingly giving way to adaptive content strategies that tap into emerging subcultures, meme aesthetics, and real-time engagement data.

At the same time, not all trends are organic. Some are artificially seeded or promoted by platforms to shape consumer behavior, raising ethical questions about manipulation and authenticity.

### 5.3. Implications for Brand Strategy and Platform Design

The insights outlined above have far-reaching implications for both brand strategy and platform architecture. In the algorithmic era, successful brands are not merely product providers—they are data-aware, experience-centric entities that must engage with consumers through dynamic, multi-sensory, and participatory formats.

Key to this transformation is ethical data use. Consumers are increasingly demanding clarity on how their data is collected, stored, and utilized. Brands that adopt privacy-conscious design, avoid dark patterns, and prioritize algorithmic explainability are more likely to foster trust.

Moreover, algorithmic environments reward co-creation and community engagement. Participatory models—such as user-generated content campaigns, interactive polls,

and open innovation contests—enable brands to distribute authorship and make consumers feel like collaborators rather than targets [12].

From the platform side, design choices must account for user agency and well-being. Recommendation systems can be restructured to allow more user control over content filtering, frequency of ads, or even the ability to disable certain personalization features. As algorithmic systems mature, there is a growing call for human-centered algorithms that align technological optimization with psychological and ethical outcomes.

## 6. Future Directions and Research Gaps

Despite growing interest in algorithmic marketing and consumer interaction within social commerce platforms, the existing literature remains fragmented and predominantly descriptive. As algorithmic systems become more deeply embedded in digital consumption, a more rigorous and interdisciplinary research agenda is urgently needed.

First, future studies should integrate insights from behavioral science, AI ethics, and human-computer interaction to capture the full spectrum of algorithmic influence. While marketing research has largely focused on conversion metrics and engagement rates, less attention has been paid to cognitive biases, emotional regulation, and behavioral nudges engineered by algorithms [13]. Similarly, the ethical implications of such designs—particularly concerning autonomy, consent, and surveillance—require frameworks from AI ethics and digital rights discourse.

Second, there is a notable lack of research on cultural and generational variations in algorithmic perception and use. For example, younger consumers may exhibit higher tolerance for personalization and data sharing due to their digital nativity, whereas older users may approach algorithmic environments with greater skepticism or confusion. Moreover, regional differences—in data governance (e.g., GDPR in Europe vs. data nationalism in China), digital literacy, and platform ecosystems—create diverse consumer experiences that a one-size-fits-all model fails to capture.

Third, the long-term psychological and societal impacts of algorithmic commerce remain underexplored. Prolonged exposure to emotionally optimized content, constant personalization, and influencer-driven norms may reshape identity formation, decision-making autonomy, and self-esteem, especially among adolescent users. Additionally, the normalization of algorithmic curation in everyday consumption may have broader implications for consumer agency, collective behavior, and market diversity.

Lastly, future empirical work should move beyond observational or platform-driven analytics to include longitudinal studies, experimental designs, and qualitative approaches. Mixed-method research can uncover not just what consumers do, but why and how they respond to algorithmic structures over time. Collaborations between academia, platform designers, and policy-makers will be essential in ensuring that the next phase of algorithmic commerce is both innovative and socially responsible.

## 7. Conclusion

This review has examined the transformative impact of algorithmic marketing on consumer behavior within the context of social commerce platforms. By harnessing advanced data analytics and machine learning, algorithmic marketing has shifted consumer engagement from broad, static targeting to dynamic, hyper-personalized interactions. These changes affect not only what consumers see and buy but also how they make decisions, perceive social influence, and emotionally engage with brands.

Key insights reveal that algorithms shape consumer heuristics by providing popularity cues and personalized signals, amplify social proof through peer and influencer content, and exploit emotional triggers to foster deeper engagement. At the same time, consumers face a complex dilemma balancing the benefits of personalization with concerns over privacy and autonomy. The rise of ephemeral micro-trends further complicates the landscape, demanding agile brand strategies and ethical platform designs.



Looking ahead, the future of algorithmic marketing depends on interdisciplinary research and practice that integrates behavioral science, ethics, and technology design. Platforms and marketers must prioritize transparency, user agency, and fairness to sustain consumer trust. Importantly, the design of digital marketplaces should be human-centered, ensuring that algorithms serve to empower rather than manipulate users.

In conclusion, algorithmic marketing is not merely a technological innovation but a fundamental reconfiguration of the consumer–brand relationship. By embracing ethical principles and human values, stakeholders can harness its potential to create more meaningful, responsible, and engaging consumer experiences in the digital age.

## References

1. J. Wang and P. Wang, "Research on the path of enterprise strategic transformation under the background of enterprise reform," *Mod. Econ. Manag. Forum*, vol. 6, no. 3, pp. 462–464, 2025, doi: 10.32629/memf.v6i3.4035.
2. F. Gao, "The Role of Data Analytics in Enhancing Digital Platform User Engagement and Retention," *J. Media Journal. Commun. Stud.*, vol. 1, no. 1, pp. 10–17, Apr. 2025, doi: 10.1016/10.71222/z27xzp64.
3. Y. Zhao and M. Tsubaki, "An algorithmic marketing approach to analyzing consumer well-being: Incorporating psychological factors in customer loyalty," *J. Retail. Consum. Serv.*, vol. 84, p. 104238, 2025.
4. W. Wu, Y. Huang, and L. Qian, "Social trust and algorithmic equity: The societal perspectives of users' intention to interact with algorithm recommendation systems," *Decis. Support Syst.*, vol. 178, p. 114115, 2024, doi: 10.1016/j.dss.2023.114115.
5. Y. Liu and X. Sun, "Towards more legitimate algorithms: A model of algorithmic ethical perception, legitimacy, and continuous usage intentions of e-commerce platforms," *Comput. Hum. Behav.*, vol. 150, p. 108006, 2024, doi: 10.1016/j.chb.2023.108006.
6. Y. Krasylnykova et al., "Algorithmic Shift and the Role of AI in Shaping the Future of Social Media Marketing," *Materials of XI Int. Sci. Pract. Conf.*, 2024.
7. H. A. M. Voorveld, C. S. Meppelink, and S. C. Boerman, "Consumers' persuasion knowledge of algorithms in social media advertising: identifying consumer groups based on awareness, appropriateness, and coping ability," *Int. J. Advert.*, vol. 43, no. 6, pp. 960–986, 2024, doi: 10.1080/02650487.2023.2264045.
8. Q. Liang and J. Liu, "Research on the influence of short video AI personalized recommendation on consumers' impulsive buying behavior—moderating effects based on algorithmic attitudes," in *Proc. 7th Int. Conf. Inf. Manage. Manage. Sci.*, 2024, doi: 10.1145/3695652.3695688.
9. Y. Fan and X. Liu, "Exploring the role of AI algorithmic agents: The impact of algorithmic decision autonomy on consumer purchase decisions," *Front. Psychol.*, vol. 13, p. 1009173, 2022, doi: 10.3389/fpsyg.2022.1009173.
10. T. Klietnik, K. Zvarikova, and G. Lăzăroiu, "Data-driven machine learning and neural network algorithms in the retailing environment: Consumer engagement, experience, and purchase behaviors," *Econ., Manage. Financ. Mark.*, vol. 17, no. 1, pp. 57–69, 2022, doi: 10.22381/emfm17120224.
11. G. Lăzăroiu and E. Rogalsk, "Generative artificial intelligence marketing, algorithmic predictive modeling, and customer behavior analytics in the multisensory extended reality metaverse," *Oeconomia Copernicana*, vol. 15, no. 3, 2024, doi: 10.24136/oc.3190.
12. A. M. Păuceanu, S. Văduva, and A. C. Nedelcuț, "Social Commerce in Europe: A Literature Review and Implications for Researchers, Practitioners, and Policymakers," *J. Theor. Appl. Electron. Commer. Res.*, vol. 18, no. 3, pp. 1283–1300, 2023, doi: 10.3390/jtaer18030065.
13. H. Xiang et al., "Determinants of social commerce usage and online impulse purchase: implications for business and digital revolution," *Front. Psychol.*, vol. 13, p. 837042, 2022, doi: 10.3389/fpsyg.2022.837042.

**Disclaimer/Publisher's Note:** The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of GBP and/or the editor(s). GBP and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.