

Research Article

*Journal of Electrical Electronics Engineering***Factors Influencing the Undergraduate's Behavioral Intention to Second-Hand Clothing Donation in Ho Chi Minh City: Extended Theory of Planned Behavior****Truong Minh Khang*, Vo Quang Thien, La Quang Thang, Vo Van Hien, Hoang Tien Hoc and Nguyen Thao Nguyen**

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Abstract

The unsustainable development of fast fashion is causing serious environmental and social consequences worldwide. With the accumulation and waste of resources that result from throwing away clothing's to landfill, it is necessary to encourage people to dispose of their second-hand clothes as sustainably as possible. Therefore, second-hand clothing donation is preferred as offering comprehensive and optimal solutions, especially in developing countries like Vietnam. It is also a compassionate act that provides necessary clothes to people in need. This study aimed to explore the factors influencing the undergraduate's behavioral intention to second-hand clothing donation in Ho Chi Minh City (HCMC). By extending the Theory of Planned Behavior (TPB) with environmental factor - "Environmental Concern" and social factor "Philanthropic Awareness" to construct a research framework, the result of 244 valid responses from students at universities in HCMC confirmed three out of five hypotheses. The findings reveal that three factors: "Philanthropic Awareness", "Perceived Behavioral Control", and "Environmental Concern" have significant and positive influence on HCMC university students' intention of second-hand clothing donation while "Attitudes" and "Subjective Norm" are found no impact. The study contributes to new insight on the factors that influence the intention of second-hand clothing donation in Ho Chi Minh city. Based on this result, recommendations for charity organizations, local governments, and clothing drive fundraisers to enhance clothing donating intention is proposed.

Keywords: Environmental Concern, Philanthropic Awareness, Second-Hand Clothing Donation

1. Introduction

In recent years, the rapid growth in production and consumption of fast fashion is raising social, economic and environmental aspects. The era of fast fashion with "planned obsolescence" concept, therefore, has come where ZARA, H&M, and Adidas are the leading brands (according to The 2019 Fast Fashion Brand Ranking) thus promoting a throwaway culture. Fast fashion industry has been devastating the environment, agricultural lands while requiring extensive water usage in clothing production. The widespread use of synthetic fibers and microfiber contributes significantly to environmental degradation, particularly through its connection to ocean plastic pollution, ocean acidification, and climate change. This concern has prompted various stakeholders, including society, academia, and governments, to shift their focus towards sustainable development, low-carbon economy, and circular economy as potential solutions to mitigate these environmental and social effects. According to Statista (2023), by 2029, the fast fashion market is expected to grow by 20 percent, which means the fast fashion market value will reach 43 billion

U.S. dollars. Clothing is among the largest polluters in the world.

On the social-economic aspect, according to Vietnam Household Living Standard Survey (2022), the region with the lowest average income per person per month is the Rural area (3.86 million VND), particularly the Northern Midlands and Mountains (3.17 million VND). The left-behind families in rural areas, characterized by a lack of social welfare support, high dependency ratio and frequently facing natural disasters (storms, floods, and droughts,). Miser ability is now not only the mentioned uneven development but also an enormous amount of old clothing being released out into nature, which can instead be redistributed as second-hand clothing to these small areas to help relieve the financial burden [1].

The predominant method of disposing of clothing in most countries continues to be landfilling, which poses challenges in terms of reusability and ecosystem degradation, even though natural fibers used as raw materials for sustainable fabrics decompose, they

still contribute to the emission of greenhouse gases. Second-hand clothing (SHC) donation among ongoing efforts to circulate the life of these materials is preferred. Second-hand clothing donation refers to the act of giving or contributing used or pre-owned clothes to individuals, organizations, or initiatives for charity, which the authors consider to be meaningful to society, economy, environment and especially sustainable development. Firstly, donation for charity will reduce poverty when disadvantaged households can redirect their cash flow to human development instead of spending part of which on garments. Secondly, consumers simultaneously may feel pleased to maintain purchasing power in the fast fashion industry because the more clothes purchased, the more diverse people receiving used clothes will be. The view is supported by who agreed that charitable donations provide a market-based solution to managing the textile waste stream that appears to benefit everyone [2]. Thirdly, beneficial to the environment, donating SHC reduces resource usage, conserving water and energy needed for textile production [3]. Additionally, it cuts down on waste generation, easing landfills burden, CO2 emissions and promoting a circular economy [4].

The sustainable disposal behavior of second-hand clothes is attracting scholars' attention. Particularly, research by on clothing disposal methods has been conducted within various theoretical frameworks and contexts [5,6]. However, these studies lack comprehensive assessment of the primary motivations driving the donation of used clothing, considering both altruistic factors and environmental concerns within the same context. This has led to inconsistent focus on donation as a sustainable disposal method but often revolves around reselling or recycling. Additionally, differing contexts in terms of donation conditions and socio-cultural environments across regions with varying levels of development have created significant disparities between previous research and research conducted in the Vietnamese context. Particularly during the onset of the Covid-19 pandemic, there was a notable influence on consumers' perception of the value of second-hand clothing [7]. Therefore, findings from previous studies on clothing donation conducted before and during the Covid-19 period may differ from the current concept [8].

Despite being considered to be ignorant and uncaring when becoming the dominant consuming group in fast fashion, this Later – Millennials, the undergraduate in particular, have exhibited an increasing involvement in charitable donation activities [9-12]. Thus, the authors study the topic of "Factors influencing the undergraduate's behavioral intention to Second-Hand Clothing Donation in Ho Chi Minh City: Extended Theory of Planned Behavior" to answer the following questions: Q1: "What factors influence undergraduate students' behavioral intention to donate second-hand clothes in Ho Chi Minh City?" and Q2: "Whether the undergraduates in Ho Chi Minh City are social activists, environmental activists or just performance activists?"

The answers to the two questions above will provide valuable recommendations for stakeholders aiming to promote donation among this demographic through tailored appeal strategies.

Aligned with our research objectives, we advocate for sustainable disposal in the fashion industry, stressing its affordability and eco-friendly benefits for economic growth. Our focus includes promoting responsible consumption and production (SDG12) and reducing inequalities (SDG10), while ensuring access to social welfare for vulnerable households without financial strain.

1.1 Literature Review

1.1.1 Theoretical Foundation

The Theory of Planned Behavior (TPB) is often widely applied in explaining behaviors related to sustainability and environmental friendliness [13-15]. Based on the foundation of TPB, intention (willingness to perform) is behavior determined by three variables. The first variable is Attitude, which is the consumer's willingness to engage in the above behavior. The second variable is the Subjective Norm, which includes a person's beliefs about whether significant others think they should perform the behavior. The third variable measures the perception of control and available resources needed to perform the behavior, called Perceived Behavioral Control [16].

According to TPB is a widely used and experimental theory for predicting individual behavior [17]. However, believe that the model lacks a series of important social and personal factors, which also have an important impact on environmental protection behavior [18]. Proposed a potential solution, by introducing and exploring more factors than the original three [19]. Expanding TPB in this way is considered to be very important for solving social and moral problems [20,21].

Academics have expanded upon the Theory of Planned Behavior (TPB) in their discussions on various sustainability practices, with a particular focus on environmental considerations. For instance, in a study conducted by, the TPB was augmented to include factors such as willingness to pay, environmental concern and perceived value were major predictors of purchase intention for recycled clothing in developing countries [22]. Similarly, extended the theory by incorporating self-identity, general recycling behavior, eco-literacy, self-efficacy to understand Australian consumers' intentions to recycle end-of-life garments [23]. This research adheres to the original model of the TPB proposed by and introduces an additional construct: Environmental Concern and Philanthropy Awareness to observe individuals' intentions to donate second-hand clothing in Ho Chi Minh City.

1.1.2 Hypotheses Development

Attitude "refers to the degree to which a person has a favorable or unfavorable evaluation or appraisal of the behavior in question" or in donation context, is thoughts and feelings about the act of helping [24,25]. The authors examine attitude as a measure of the positive or negative evaluation of students regarding the intention of donating second-hand clothes. A positive attitude plays a crucial role in shaping charity giving behavior by influencing the undergraduate's awareness regarding non-profit organizations, in intentions to reuse end-of-life garments including donation or in donating intention towards flood-affected victims in Indonesia, whose geographical situation is similar to Vietnam [26-28]. Thus,

hypothesis H1 is proposed:

H1: Attitudes has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation

Subjective Norm encompasses an individual's perception of social pressure and their inclination to either engage or abstain from a particular behavior. Social pressure comes from those close to a person whether family member or friends. Individuals with positive subjective norms towards a particular behavior are more inclined to develop a positive intention to revisit [29]. People looking for their social image augment their status through the approval of the surrounding community [30,31]. Numerous investigators have consistently highlighted the significance of subjective norms in shaping intentions such as organic food purchasing, and the intentions of blood donors [32,33]. Therefore, hypotheses H2 is proposed:

H2: Subjective Norms has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation

Perceived Behavioral Control (PBC) refers to "the perceived ease or difficulty of performing the behavior and it is assumed to reflect past experience as well as anticipated impediments and obstacles" or individual beliefs about the ability and opportunities, obstacles in displaying behavior. Studies suggest that a higher PBC leads to a stronger intention to charitable giving. In Egypt university, perceived behavioral control determines students' intention to donate. Similarly, it was found that an individual's intention to charitable donation increases when a sense of "perceived control" is strengthened, such as in social ethical standards, in food waste separation or in handling textile waste of female consumers in South Africa [34-36]. Consumers' decisions to donate are typically utilitarian, driven by the desire to optimize closet space rather than prosocial or pro-environmental motivation. The convenience of the donation location is a key factor [37]. Hypothesis H3 is proposed:

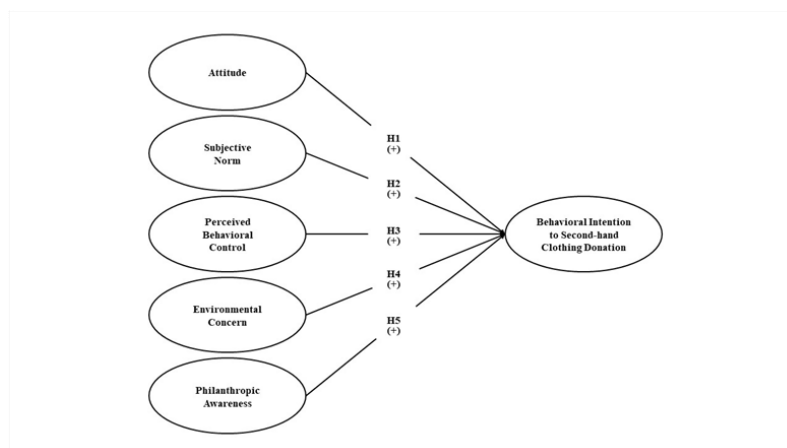
H3: Perceived Behavioral Control has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation

Environmental concern refers to the level of awareness regarding ecological issues and the willingness to reinforce, address, or contribute solutions [38,39]. Donations are considered positive environmental behaviors as they keep unwanted clothing out of landfills [40,41]. Several studies have provided evidence that environmental concern is a crucial determinant of environmental behavior [42-44]. Individuals with a high level of environmental concern tend to have a greater engagement in donation than those who do not care about damaging consequences of fast fashion on fragile environment, which is supported in the context of sustainable fashion and in donating excess clothes [45,46]. However, later rejected this [47]. Therefore, we propose the H4 hypothesis:

H4: Environmental Concern has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation

Philanthropy is defined as "a social relation governed by a moral obligation that matches a supply of private resources to a demand of unfulfilled needs and desires that are communicated by entreaty" [48]. Empathy is one characteristic of philanthropy [49]. Therefore, empathic concern has a positive impact on donation decisions [50, 51]. A study by also found that donations motivated by charity significantly influence the clothing disposal decisions of US consumers [52]. In the United States, charitable considerations serve as the main motivation behind consumer donations [53]. Similarly, philanthropic motivations can influence where consumers choose to dispose of their products, leading consumers to donate them to charitable organizations [54-57]. From this, the authors propose hypothesis H5:

H5: Philanthropic Awareness has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation



2. Methodology and Data

To collect the data needed, the research team sent a questionnaire with Google Forms to the undergraduate studying in HCMC and having known about SHC donation. The data was collected from January 21st to January 29th. Items for measuring the 5 latent

constructs in the model were drawn from previously validated studies. Minor modifications were made to the items to match the context of this study. Respondents were asked to evaluate all items on a 5-point Likert scale ranging from "Strongly disagree" (1) to "Strongly agree" (5).

Item	Description	Adopted from
Attitudes		
AT1	“I like the idea of donating clothes that I no longer want”	Paul et al. (2016)
AT2	“I have a favorable attitude toward donating clothes that I no longer want”	
AT3	“Donating clothes that I no longer want is a good idea”	
AT4	“Donating second-hand clothes makes me feel very satisfied.”	Z. Wang et al. (2016)
AT5	“I think it is a wise choice to donate old clothes”	Paul et al. (2016); Sun et al. (2017)
AT6	“I believe donating old clothes is beneficial.”	
AT7	“I think advocating for the donation of old clothes is necessary”	
Subjective Norms		
SN1	“Most people who are important to me think I should donate clothes that I no longer want”	Oluwadamilola Olufemi Rotimi et al. (2024)
SN2	“Most people who are important to me would want me to donate clothes that I no longer want”	
SN3	“People whose opinions I value would prefer that I donate clothes that I no longer want”	
SN4	“My friend’s positive opinion influences me to donate clothes that I no longer want”	
SN5	“Media information influences me to donate old clothes”	Zhou et al. (2024)
Perceived Behavioral Control		
PBC1	“For me, donating my old clothes is easy”	Sonnenberg et al. (2022)
PBC2	“I have a lot of options to donate my old clothes”	
PBC3	“I am confident that I would be able to donate my old clothes”	
PBC4	“If I want to, I could donate my old clothes”	Veludo-de-Oliveira et al. (2017)
PBC5	“It is mostly up to me whether or not I donate my old clothes”	
Environmental Concern		
EC1	“I am very concerned about the environment.”	Paul et al. (2016)
EC2	“I would be willing to reduce my consumption to help protect the environment.”	
EC3	“Major political change is necessary to protect the natural environment.”	
EC4	“Major social changes are necessary to protect the natural environment.”	
EC5	“Anti-pollution laws should be enforced more strongly.”	
EC6	“I think daily habits can affect the environment.”	Z. Wang et al. (2016)
EC7	“I think everyone should contribute to environmental protection.”	
Philanthropic Awareness		
PA1	“It is important for me to donate my clothes to charity for the needy”	O’Loughlin Banks & Raciti (2018)
PA2	“I like to give away my clothes to help others”	
PA3	“Clothing donation brings enjoyment to people’s lives.”	
PA4	“I feel compassionate towards those less fortunate than me”	
PA5	“I have a good life - donating clothes is my way of giving back”	
PA6	“I am genuinely concerned about those I am supporting”	
Behavioral Intention to Donate Clothes		
BI1	“I intend to donate Second-hand clothes in the near future”	Vlastelica et al. (2023)
BI2	“I am going to donate Second-hand clothes in the future again”	
BI3	“I will continue to donate Second-hand clothes”	
BI4	“The next time I donate I intend for it to be old clothes”	
BI5	“I am willing to tell my friends about the experiences of donating second-hand clothes”	Z. Wang et al. (2016)
BI6	“I will consider donating second-hand clothes”	Vlastelica et al. (2023)

Table 1: Measurement Scales

To process and analyses the surveyed data, the authors used SPSS 25 to identify factors influencing undergraduate students' Behavioral Intention to Second-hand Clothing Donation in

HCMC. The authors use Cronbach's alpha whose value above 0.6 is reliable and Exploratory Factor Analysis (EFA) which factor loading greater than 0.5 is valid.

3. Results and Discussions

3.1 Demographic Characteristics

The proportion of students participating in the survey is 29.9% from UEH, 29,1% from the VNU-HCMC, and the remaining are

from other universities. Among them, the proportion of female students is higher at 57.8%, the rest are mostly men. Most of them said they had knowledge about donating old clothes with 88.9%.

		Frequency	Percent (%)
Gender	Male	102	41.8
	Female	141	57.8
	Other	1	0.4
University	HCMIU	21	8.6
	HCMUTE	22	9
	HCMUSSH	28	11.5
	UEH	72	29.9
	Other	100	41
Total		244	100

Table 2: Profile of Respondents

3.2 Reliability Analysis

Cronbach's Alpha	Variable name	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
Attitude (AT)			
0.908	AT1	0.739	0.893
	AT2	0.710	0.896
	AT3	0.703	0.897
	AT4	0.727	0.894
	AT5	0.754	0.891
	AT6	0.737	0.893
	AT7	0.711	0.895
Subjective Norm (SN)			
0.860	SN1	0.660	0.836
	SN2	0.794	0.800
	SN3	0.716	0.822
	SN4	0.673	0.832
	SN5	0.555	0.862
Perceived Behavioral Control (PBC)			
0.820	PBC1	0.589	0.792
	PBC2	0.666	0.768
	PBC3	0.663	0.769
	PBC4	0.648	0.776
	PBC5	0.501	0.815
Environmental Concern (EC)			
0.876	EC1	0.670	0.856
	EC2	0.587	0.870
	EC3	0.704	0.853
	EC4	0.727	0.850
	EC5	0.686	0.855
	EC6	0.626	0.862
	EC7	0.625	0.862

Philanthropy Awareness (PA)			
0.875	PA1	0.700	0.850
	PA2	0.708	0.849
	PA3	0.663	0.856
	PA4	0.660	0.857
	PA5	0.670	0.859
	PA6	0.698	0.851
Behavioral Intention to Second-hand Clothing Donation (BI)			
0.893	BI1	0.737	0.870
	BI2	0.794	0.862
	BI3	0.800	0.859
	BI4	0.726	0.872
	BI5	0.591	0.893
	BI6	0.640	0.885

Table 3: Cronbach's Alpha

According to Table 3, all scales for each variable have Cronbach's Alpha values above 0.6, suggesting that our measurement scale is reliable.

3.3 Exploratory Factor Analysis (EFA)

Table 4 is the final factor analysis when eliminating the variable PA4 whose Factor Loading difference is lower than 0.5

	Factor				
	AT	EC	SN	PBC	PA
AT1	0.810				
AT2	0.738				
AT3	0.746				
AT4	0.671				
AT5	0.714				
AT6	0.767				
AT7	0.692				
SN1			0.765		
SN2			0.810		
SN3			0.788		
SN4			0.684		
SN5			0.535		
PBC1				0.622	
PBC2				0.713	
PBC3				0.666	
PBC4				0.764	
PBC5				0.674	
EC1		0.650			
EC2		0.674			
EC3		0.779			
EC4		0.740			
EC5		0.674			
EC6		0.622			
EC7		0.676			
PA1					0.701
PA2					0.553

PA3					0.547
PA5					0.661
PA6					0.653
Sig. (Bartlett's Test of Sphericity)					0.000
KMO (Kaiser-Meyer-Olkin Measure)					0.911
Eigenvalues for 5 extracted factors					1.177
Cumulative Variance (%)					64.369

Table 4: EFA Results for the Factors Influencing

The KMO value of 0.911 indicated that the data utilized for factor analysis meets the adequacy criteria ($KMO > 0.5$). At the Eigenvalues 1 threshold, the factors extracted need to be able to explain at least 50% of the variance of the data set (Meyer et al., 2006). The table 4, which showed 5 extracted factors converged at lowest Eigenvalues of 1.177, proved our EFA model's validity,

with 5 factors explaining 64.369% of the cumulative variance of the observed variables the rotated matrix results indicated that all variables have Factor Loading coefficients above 0.5, with no remaining unsatisfactory variables. In this final factor analysis 28 observed variables converged and discriminated into 5 factors.

	BI
BI1	0.829
BI2	0.874
BI3	0.877
BI4	0.821
BI5	0.699
BI6	0.744

Table 5: EFA Results for Behavioral Intention to Second-hand Clothing Donation

EFA results for Behavioral Intention to Second-hand Clothing Donation (BI) were valid with a KMO value of 0.899 ($0.5 \leq KMO \leq 1$), which showed that all 6 observed variables converged at least

Eigenvalues = 3.936 (greater than 1). With Cumulative Variance = 65.603%, BI factor explained 65.603% of the cumulative variance of 6 observed variables.

		Attitude	Subjective Norm	Environmental Concern	Philanthropic Awareness	Perceived Behavioral Control
Behavioral Intention	Correlation	0.517	0.515	0.569	0.705	0.641
	Sig	0.000	0.000	0.000	0.000	0.000

Table 6: Pearson Correlation

Table 6 showed that all independent variables have the Pearson correlation coefficient higher than 0.5 ($p\text{-value} \approx 0.000$). All independent variables have linear correlation with dependent variable.

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
(Constant)	-0.067	0.250		-0.269	0.788		
Attitude	0.074	0.064	0.064	1.165	0.245	0.552	1.811
Subjective Norm	0.051	0.049	0.057	1.038	0.300	0.565	1.769
Perceived Behavioral Control	0.298	0.052	0.301	5.764	0.000	0.614	1.627
Environmental Concern	0.185	0.066	0.150	2.783	0.006	0.575	1.739
Philanthropic Awareness	0.402	0.068	0.370	5.931	0.000	0.430	2.325
R square = 0.601, Adjusted R square = 0.593							
F = 71.845, Sig. (Anova) ≈ 0.000							

Table 7: Multiple Regressiona

a. Dependent Variable: Behavioral Intention to Second-hand Clothing Donation

According to Table 7 and Table 8, 3 out of 5 variables were positively significant. Moreover, consistent with H5, H3, and H4: Philanthropic Awareness (PA) ($\beta = 0.370$, $p\text{-value} \approx 0.000$), Perceived Behavioral Control (PBC) ($\beta = 0.301$, $p\text{-value} \approx 0.000$), and Environmental Concern (EC) ($\beta = 0.150$, $p\text{-value} = 0.006$) respectively are positively associated with the Behavioral

Intention to Second-hand Clothing Donation. While Subjective Norms (SN) ($p\text{-value} = 0.300 > 0.05$) and Attitudes (AT) ($p\text{-value} = 0.245 > 0.05$) are insignificant in the regression model and does not influence Behavioral Intention to Second-hand Clothing Donation (BI).

Hypothesis	Description	P-values	Conclusion
H1	Attitudes has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation	0.245	<i>Rejected</i>
H2	Subjective Norms has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation	0.300	<i>Rejected</i>
H3	Perceived Behavioral Control has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation	0.000	<i>Accepted</i>
H4	Environmental Concern has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation	0.006	<i>Accepted</i>
H5	Philanthropic Awareness has direct and significant impact on Behavioral Intention to Second-hand Clothing Donation	0.000	<i>Accepted</i>

Table 8: Hypothesis Test

According to Table 7, in the multiple linear regression model according to the method of OLS, the assumptions of the model including multicollinearity, normality of residual, linearity and linear autocorrelation were checked and determined by the author to be satisfied.

4. Discussion

The findings of the evaluation on consumers' priority concerns in forming the intention to donate second-hand clothes suggest that Philanthropic Awareness ($\beta = 0.370$), Perceived Behavioral Control ($\beta = 0.301$), and Environmental Concern ($\beta = 0.150$) respectively are the factors that significantly influence the intention second-hand clothes donation. These findings are supported by who argued that altruism is the foundation of donation practices. They demonstrate that college students' priorities the well-being of people when deciding to donate clothing. For individuals in Asian countries such as Vietnam, Malaysia, and Hong Kong, who are encouraged by the culture of mutual assistance, the value of compassion holds priority in charitable activities such as donating [58,59]. Additionally, the same agreement of suggests that these GenZ students' decisions to donate are directly influenced by internal factors such as knowledge, experience, and confidence in donating, as reflected in the factor of Perceived Behavioral Control [60]. Although environmental concern is proved to have strongly influence on the intention to donate clothing, in this study, environment concern is identified as a less prioritized factor.

However, Subjective Norm and Attitude do not show statistical significance with the intention to donate second-hand clothes. For Attitude, not all individuals with a positive attitude necessarily form the intention to carry out a specific action, especially when it requires more effort, such as donating [61,62]. The remaining factor, Subjective Norm, can be explained by the behaviors and lifestyles of GenZ which is proved to be the most independent and

effective in searching for information about contributions using technology [63,64].

5. Recommendations

Firstly, to encourage young adolescents to participate in clothing donation, NGOs and charitable organizations in Ho Chi Minh City should raise awareness about philanthropy among them. This can be achieved by demonstrating processes of how donated clothing can improve the disadvantaged households' lives in relation to the ecosystem, resonating with teenagers' values and emotions to encourage their participation. Secondly, fundraisers should enhance clothing donation feasibility, which requires the effort of the government and brands who have the advantage of reputation and assurance. Thirdly, the authors suggest that the lack of influence of attitudes on the intention to donate second-hand clothing may be due to repetitive donation campaigns without highlighting the meaningful impact of donations, which is related with who found the same with students' reading. Therefore, educators and parents should foster critical and innovative thinking in younger generations, emphasizing the true value of donating over traditional methods. Moreover, research by highlights the positive impact of Corporate Philanthropic Donations (CPD) on Corporate Economic Performance (CEP), especially in emerging economies [65,66]. Consequently, brands are urged to play an active role in donation initiatives, utilizing their strong advertising capabilities. By integrating CPD into corporate social responsibility strategies can boost long-term profitability and societal well-being. Collaboration between brands and the government can enhance students' intentions to donate clothes. Lastly, our study reveals that Subjective Norms do not directly influence Donation Intention. This highlights the need to reconsider Subjective Norms as an indirect factor affecting donation intentions. In today's digital age, where individuals interact not only in physical but also in digital environments, the influence of strangers' comments and

digital footprints on the undergraduate students requires further investigation. Moreover, the impact of the COVID-19 pandemic, with its economic repercussions and prolonged digital interactions, underscores the necessity for specific research on the attitudes of individuals.

6. Conclusion

Donating second-hand clothes is considered to be significant solutions to social and environmental problems of fast fashion as it contributes to mitigating waste and supporting sustainable consumption practices. Our research investigates the factors influencing the intention of the undergraduate consumers in Ho Chi Minh City to donate second-hand clothing. We address a significant research gap in the context of limited attention given to second-hand clothing donation behavior. By developing and validating the TPB model, we identify the determinants that shape their donation intentions, taking into account both environmental and social factors [67,68]. The findings underscore the importance of Philanthropic Awareness, Perceived Behavioral Control, And Environmental Concern in shaping these intentions. Since then, provide valuable insights for the fashion industry, enabling them to formulate effective strategies that promote sustainable consumption and production. Moreover, aligning with the Sustainable Development Goals (SDGs), particularly SDG12 and SDG10, this research contributes to reducing inequalities and fostering sustainable consumption and production practices. The authors hope that these findings will inspire future strategies and policies aimed at advancing sustainable development in the fashion industry while addressing social welfare concerns

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