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The Evolution Of Research On Academic Cheating Behavior Based On The Theory Of Planned Behavior (TPB): Perspectives For Future Research

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Abstract

This study aims to present a summary of various studies that explore academic cheating behavior with the support of a theory or conceptual framework so that it can be used as a valuable reference for monitoring the development of research on academic cheating behavior driven by the Theory of Planned Behavior (TPB). It is also hoped that this article can become a basis for inspiration for further research development in this domain in the future. The method applied in this study is a literature review using the connectedpapers.com platform. A search for relevant articles was conducted using the keywords "academic cheating behavior," "cheating behavior," and "academic misconduct." The study results show that the TPB can effectively predict academic cheating behavior. At the same time, variations in the use of variables include demographic, situational, and personality factors that are integrated with the TPB construct. The research methods used are also diverse, including a mixed-method approach.

Keywords: Theory of Planned Behavior, Academic Cheating Behavior, Academic Misconduct, Cheating Behavior, Cheating

INTRODUCTION

More than two decades of research into academic cheating has been conducted. Previous research on academic cheating consistently focuses on using demographic, situational, and personality variables to predict and explain behavior that violates academic integrity (AL-Dossary, 2017). Crown & Spiller (1998) revealed that research in the context of academic cheating often emphasizes individual factors, including gender, age, class, religion, values, and level of education. The results of this study provide in-depth insight into how demographic characteristics may be related to cheating behavior in the academic domain. Subsequent studies, such as the work of Kisamore et al. 2007), Smyth & Davis (2004), and a series of studies by Mccabe et al., (1996, 1999, 2001, 2002), broadened the scope by investigating situational, demographic, and personality factors. Situational variables involve cultural aspects of integrity and honor code implementation, while demographics include gender, age, and ACT (American College Testing) scores. Personality factors such as prudence and adjustment were also examined to understand how specific personality characteristics may predict academic cheating behavior. These studies make significant contributions to completing our understanding of the complex factors involved in academic cheating.

Previous research indicates no coherent framework to guide research on academic integrity (Stone et al., 2009). A series of studies that have been conducted show that there needs to be a clear consensus in developing a model that can provide an in-depth and holistic understanding of academic integrity violation behavior. It reflects that most research still focuses on identifying and analyzing specific factors in terms of demographic, situational, and personality, without comprehensive efforts to build a framework that can summarize the complexity of this offending behavior. Thus, it can be concluded that the contribution of research in developing models to explain academic integrity violation behavior is still limited, and further efforts need to be made to fill this gap in the scientific literature.

This article aims to summarize various studies that explore academic cheating behavior with the support of a theory or conceptual framework. Stone et al. (2010) emphasized the importance of a theory-based approach in understanding the root causes of academic misconduct and determining the most effective strategies for dealing with this behavior. One theory proven to have high predictive

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power regarding academic cheating behavior is the Theory of Planned Behavior (TPB) introduced by Ajzen in 1991. Hendy & Montargot (2019) added that TPB significantly contributes to predicting fraudulent behavior because it integrates aspects of perceived behavior control, which can predict the extent to which individuals have the opportunity and resources to carry out this behavior. Although TPB (Theory of Planned Behavior) is one of the most influential psychological theories in predicting various behaviors, its use in predicting academic cheating has received less attention (AL-Dossary, 2017; Hendy & Montargot, 2019). By summarizing various research results, this article can be used as a valuable reference for tracking the development of research on academic cheating behavior driven by the Theory of Planned Behavior (TPB). Apart from that, this article can also be a basis for inspiring further research development in this field in the future.

Therefore, the research question in this study is:

RQ: How has the research on academic cheating behavior evolved based on the Theory of Planned Behavior?

LITERATURE REVIEW

Theory of Planned Behavior

Many definitions have been presented by previous researchers regarding academic cheating behavior. *Academic cheating behavior* is a general term that covers a variety of unethical behavior in an academic environment that is carried out intentionally or consciously by claiming someone else's work as one's own without giving proper credit to the source, which can include claims for work that the individual did not do (Moeck, 2002). On the other hand, academic cheating refers to behavior categorized as unethical, such as looking at other people's answers in exams (Zhao et al., 2021). Academic cheating is also defined as inappropriate behavior during academic activities (Hendy & Montargot, 2019).

The Planned Behavior (TPB) theory developed by Ajzen emerged as a significant decision-making theory in understanding when and why a student decides to cheat (Ababneh et al., 2022). Different from the previous version, namely the Theory of Reasoned Action (TRA), TPB enriches the analysis by including the construct of perceived behavioral control as a critical predictor of behavioral intentions and, ultimately, actual behavior. Ababneh et al. (2022) stated that in the view of Ajzen and colleagues, engagement in a particular behavior depends not only on the intention to do it but also on the perceived control over the behavior. Thus, the TPB provides a more holistic and detailed framework to explain the complexity of students' decisions in committing academic fraud.

According to this theory, the direct predictor of behavior is the intention to perform the behavior, which is determined by three main factors: attitude toward the behavior, subjective norms, and perceived behavioral control (Beck & Ajzen, 1991). Attitude towards behavior refers to an individual's evaluation of a particular behavior, either in the form of support or rejection. Subjective norms include individuals' impressions about whether individuals relevant to them believe that behavior should be followed. Meanwhile, perceived behavioral control reflects an individual's view of his or her capacity to carry out a behavior influenced by previous experiences and anticipated obstacles.

Beck & Ajzen (1991) present a modified version of the Theory of Planned Behavior (TPB) by including the element of "personal feelings and responsibility to carry out or reject a behavior based on their personal moral or ethical feelings," which is referred to as moral obligation. In their view, moral obligations become an essential catalyst when moral concerns become the primary motivator for behavior, enriching the TPB framework with ethical dimensions and moral values in behavioral decision-making (AL-Dossary, 2017). According to (Beck & Ajzen (1991), moral obligations are necessary when moral concerns are the primary motivator for behavior.

Vol 10, No 2 (2023), December; p. 191-204; https://e-journal.stie-aub.ac.id/index.php/excellent

Although TPB is considered effective in predicting fraudulent behavior, much of the variation in this behavior remains unexplained (AL-Dossary, 2017). This fact indicates that the TPB may have yet to fully assess several vital constructs in the context of fraudulent behavior. Efforts to increase the explanatory power of the TPB model have been made by testing additional components to complete the model (Armitage & Conner, 1999). In (Ajzen, 1991) view, the TPB is open to integrating additional predictors if it can be demonstrated that they can accommodate most of the variability in intentions or behavior once the current variables of the theory have been considered. It shows TPB's open attitude towards development and improvement and developing knowledge and understanding of human behavior. Thus, continued efforts to enrich the TPB with additional constructs could be a significant step towards increasing the accuracy and precision of the model in explaining fraudulent behavior.

METHOD

This research applies a literature review method chosen with the consideration that this article is intended as a valuable reference for tracking the development of research on academic cheating behavior. Through the literature review method, it can be identified whether there are developments in specific research results. The technical literature review was carried out using a simplified approach, which was carried out in several steps.

The topic raised in this article is academic cheating behavior. After determining the topic, the next step involves source search and selection, where a search is carried out for relevant literature sources to the research focus. At this stage, relevant sources were found through the connectedpapers.com platform using search keywords such as "academic cheating behavior," "cheating behavior," and "academic misconduct." After collecting sufficient literature, the next step is conducting analysis and synthesis. It simplifies the literature analysis by summarizing the main findings, patterns, or trends that emerge from the existing literature. Each article was carefully analyzed, focusing on the title, variables, respondents, research procedures, and results. The final stage in this process is the presentation of information, where the findings are arranged systematically and structured in an article. Thus, this article not only reflects the framework of the chosen topic but also shows an attempt at an in-depth analysis of the relevant literature.

RESULT

From the search results for relevant sources via the connectedpapers.com platform, 14 articles were found that had been published from various leading sources, such as Emerald, ScienceDirect, Springer, and several others. The analysis that has been successfully carried out will be presented in Table 1 below.

Table 1. Literature Review

Title	Authors	Variables	Results	Suggestion
Using the theory	Stone et	Attitude, Subjective	The PBT model is a	(1) Conduct longitudinal
of planned	al., 2009	Norm, Perceive	predictor of cheating	research
behavior and		Behavior Control,	behavior	(2) Examine the extent to
cheating		Justification,		which cheating at school
justifications to		Intention, Cheating		is related to cheating at
predict		Behavior		work and other
academic				counterproductive work
misconduct				behavior
Predicting	Stone et	Attitude, Subjective	(1) The PBT model is a	Future research should

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Title	Authors	Variables	Results	Suggestion
Academic	al., 2010	Norm, Perceive	predictor of cheating	examine whether prudence,
Misconduct		Behavior Control,	behavior,	as a measure of personality,
Intentions and		Prudence,	(2) PBT mediates	interacts with abilities, such
Behavior Using		Adjustment,	adjustment and	as academic ability, to
the Theory of		Intention	prudence,	predict academic
Planned			(3) Adjustment does not	misconduct.
Behavior and			affect PBT,	
Personality			(4) Prudence is	
			significantly related	
			to all TPB	
			components except	
			intention.	
Intensi	Riyanti	Attitude, Subjective	(1) There is a positive	(1) Conducting research
Mencontek	(2015)	Norm, Perceive	and significant	using experimental
Ditinjau Dari		Behavior Control,	influence between	methods that are more
Theory of		Intention, Cheating	TPB and cheating	systematic, logical and
Planned		Behavior	intentions	thorough in controlling
Behavior			(2) TPB can be used to	the conditions or
			predict cheating	manipulation of a
			intentions	stimulant, treatment or
				experimental conditions
				(2) Observing the effects
				caused by the treatment
				or manipulation that has
				been carried out.
Application of	Chudzicka	Students' attitudes	(1) Attitude, perceived	Conducting longitudial
the theory of	-Czupała et	towards academic	behavioral control,	research
planned	al. (2016)	cheating, Subjective	and moral obligation	research
behavior in	un (2010)	social norms,	predict students'	
academic		Perceived	intentions to engage	
cheating		behavioral control,	in academic	
research-cross-		Moral obligation,	dishonesty in the	
cultural		Intentions to cheat	form of cheating.	
comparison			(2) A detailed modified	
_			version of the theory	
			of planned behavior	
			emerged as the best	
			explanatory model	
			in predicting	
			intention to cheat.	
Model Theory	(Wijayan	Students' attitudes	(1) Attitude does not	(1) Carrying out tests by
of Planned	ti &	towards academic	have a significant	taking different research
Behavior (TPB)	Putri,	cheating, Subjective	influence on the	subjects or expanding
Untuk	2016)	social norms,	intention to commit	the scope of research so
Memprediksi	2010)	Perceived	academic fraud	that the generalization of
Niat Mahasiswa		behavioral control,	among students at	the modelled concept
Melakukan		Moral obligation,	the Faculty of	can be increased,
Kecurangan		Intentions to cheat	Economics and	(2) Adding a moderating
Akademik			Business in Solo	variable to clarify the
			Raya.	influence of attitudes on

Vol 10, No 2 (2023), December; p. 191-204; https://e-journal.stie-aub.ac.id/index.php/excellent

Title	Authors	Variables	Results	Suggestion
			(2) Subjective norms, perceived behavioral control, and moral obligations are proven to influence	the intention to commit academic fraud.
			the intention to commit academic fraud.	
Intentions to Cheat: Ajzen's Planned Behavior and Goal-Related Personality Facets	Lonsdale, 2017	Intention to cheat, attitudes of friends and parents towards academic dishonesty, and perceived ease of cheating	Subjective norms, such as students' perceptions of their friends' and parents' attitudes toward cheating, as well as the perceived ease of committing cheating, were all positively related to intentions to cheat.	 Using a more diverse sample. Combining self-report and triangulation data collection methods. Conduct research with a longitudinal design. Conduct research in various cultural and institutional contexts. Testing other psychological and social theories to understand more about academic cheating behavior. Explore how emotions influence the intention to commit fraud and how these emotions interact with personality and
Does Islamic Religiosity Influence the Cheating Intention among Malaysian Muslim Students? A modified Theory of Planned Behavior	Mustapha et al. (2016)	Attitude, Subjective norm, Perceive behavior control, Islamic Religiosity, Intention	(1) Attitude and Subjective Norm are significant towards intention to cheat (2) Perceived behavioral control and religiosity are not significant on intention to cheat	social factors. (1) Collect broader data that includes private universities where more comparisons and generalizations can be made. (2) Most respondents are Muslim students, and research can be expanded to involve other religions and cultures. (3) Organized interviews with more participants can be conducted to obtain deeper insights and more detailed results.
Why Do College Students Cheat? A Structural Equation	AL- Dossary, (2017)	Past behavior, Moral obligation, Attitude, Subjective norm, Perveived	(1) Attitudes, subjective norms, perceived behavioral control, and moral	(1) Testing a more comprehensive TPB model by including additional variables that

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Title	Authors	Variables	Results		Suggestion
Modeling		Behavioral Control,	obligations can		might influence cheating
Validation of the		Intention	predict intentions to		behavior, such as
Theory of			cheat.		psychological,
Planned			(2) The variable		environmental, and
Behavior			cheating in high		technological factors.
			school increases the	(2)	Exploring other types of
			predictive ability of		cheating, such as
			the TPB, with		plagiarism, unethical
			students who cheat		collaboration, or use of
			more often in high		prohibited materials.
			school tending to	(3)	Considering the
			cheat more often in	. ,	existence of gender
			college.		differences in cheating
			(3) There are gender		behavior, future research
			differences in		can explore more deeply
			cheating behavior,		the factors that cause
			with men more		these differences.
			likely to cheat than		
			women.		
Investigating	Uzun et al.	Attitude, Computer	(1) Attitude,	(1)	Develop an expanded
antecedents of	(2020)	literacy,	information literacy,	(-)	TPB model by including
plagiarism using	(====)	Information	moral obligation,		other variables that
extended theory		Literacy, Intention,	and past behavior		might influence the
of planned		Subjective Norms,	are significant		intention to commit
behavior		Moral Obligation,	predictors of		plagiarism, such as the
0 01140 1 1 1 1 1		Past Behavior.	intention to commit		influence of the social
			plagiarism		environment or other
			(2) Subjective norms do		psychological factors.
			not have a	(2)	Explore the effectiveness
			significant effect on	()	of different educational
			the intention to		interventions in
			commit plagiarism		improving academic
			(3) Internet and		integrity and reducing
			computer literacy		plagiarism
			were not found to be	(3)	Future research can
			significant predictors	(-)	investigate more deeply
			8 1		why subjective norms
					were not found to be a
					predictor and how social
					norms and peer pressure
					influence plagiarism
					behavior.
				(4)	Future research can
				(1)	investigate the
					relationship between
					information literacy and
					plagiarism in more
					depth, including the
					development of more
					effective measuring tools
					for assessing information
					101 assessing information

Excellent: Jurnal Manajemen, Bisnis dan Pendidikan

Vol 10, No 2 (2023), December; p. 191-204; https://e-journal.stie-aub.ac.id/index.php/excellent

Title	Authors	Variables	Results		Suggestion
					literacy.
Cheating Intention of Students Based on Theory of Planned Behavior	Dewanti et al. (2020)	Attitude, Subjective Norm, Perceive Behavioral Control, Moral Obligation, Intention	Subjective norms have the greatest influence on students' intention to cheat, followed by moral obligation and perceived behavioral control	(2)	Future research could expand the conceptual model by including other factors that might influence the intention to cheat, such as peer pressure, academic stress, or other psychological factors. Future research may use different or additional methodologies, such as experiments or secondary data analysis, to validate the findings. Conduct longitudinal research.
Predictors of cheating in online exams among business students during the Covid pandemic: Testing the theory of planned behavior	Ababneh et al. (2022)	Attitudes towards cheating, intention to commit fraud, subjective norms, perceived behavioral control, moral obligations, fraudulent behavior, individual predictors, and contextual predictors	(1) Students' attitudes towards cheating, social norms that support cheating, and perceived control over cheating are the main predictors of intention to cheat in online exams. (2) Perceived control and intention to cheat directly predict actual fraud behavior. (3) Individual and contextual factors do not have a significant impact on fraudulent intentions or behavior. (4) The addition of moral imperatives, demographics, and contextual factors weakens and complicates the theoretical predictions offered by the TPB.	(2)	This research finds that the addition of demographic and contextual factors weakens the theoretical predictions offered by the Theory of Planned Behavior (TPB). Therefore, future research could explore more deeply how these factors influence academic cheating behavior. Although the TPB has been shown to be effective in predicting fraud intentions and behavior, future research could test alternative models or expand the TPB with additional variables to gain a better understanding of fraud behavior.
Investigating the	Hamdani	Intention to commit	(1) Islamic religiosity	(1)	Future research could
students'	et al.	fraud, fraudulent	does not moderate		explore other factors that
behavior	(2022)	behavior, Islamic	the Theory of		might influence cheating

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Title	Authors	Variables	Results		Suggestion
towards the		religiosity, attitudes	Planned Behavior		intentions and behavior,
temptation to do		towards cheating,	(TPB) in reducing		such as academic
academic		perceived	students' desire to		pressure, perceived
misconduct in		behavioral control,	commit academic		fairness, and other
higher		and subjective	violations.		psychological factors.
education: The		norms	(2) Islamic religiosity	(2)	Conduct longitudinal
moderation of			has a negative effect	()	research.
religiosity			on the intention to	(3)	Exploring how
			cheat, which means	(-)	religiosity influences
			students with a high		actual cheating behavior.
			level of religiosity	(4)	Develop and test
			tend to commit	(1)	interventions designed to
			academic fraud less.		improve academic
			(3) Attitudes toward		integrity, such as ethics
			cheating, perceived		education programs or
			behavioral control,		self-control training.
			and religiosity all		sen-control training.
			have significant effects on intention		
			to commit fraud.		
			(4) Perceived behavioral control has a		
			positive effect on fraud intentions,		
			while social norms		
			have no effect.		
Academic	71	A44:4: 1 - C-1-:4:	(1) Perceived	(1)	Future research could
	Zhang	Attitide, Subjective	` '	(1)	
cheating as	(2023)	Norm, Perceive	Behavioral Control		further explore how other cultural
planned		Behavior Control,	(PBC) and		
behavior: the		Academic	individualism-		orientations, besides
effects of		Cheating,	collectivism		individualism and
perceived		Horizontal-vertical-	orientation have an		collectivism, influence
behavioral		individualism-	important role in		academic cheating
control and		collectivism	predicting academic		behavior, such as power
individualism-co			cheating behavior		distance, uncertainty
llectivism			among college		avoidance, and
orientations			students in China.	(2)	masculinity/femininity.
			(2) PBC has a	(2)	Develop and test
			significant negative		interventions tailored to
			effect on subjective		specific cultural
			norms and a positive		orientations to see
			but not significant		whether they are more
			effect on attitudes		effective in reducing
			towards cheating.		academic cheating
			(3) Individualism-		compared with more
			collectivism	(2)	general approaches.
			orientation interacts	(3)	Conduct longitudinal
			significantly with		research.
			the combined effect		
			of PBC with		
			subjective norms		

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Vol 10, No 2 (2023), December; p. 191-204; https://e-journal.stie-aub.ac.id/index.php/excellent

Title	Authors	Variables	Results	Suggestion
			and attitudes	
			towards cheating.	
			(4) PBC, attitude	
			(ATT), and	
			subjective norm	
			(SN) together	
			accounted for 8.0%	
			of the variance in	
			academic cheating	
			behavior.	
			(5) A negative	
			interaction between	
			PBC and SN was	
			reported, indicating	
			that PBC moderates	
			the relationship	
			between subjective	
			norms and cheating.	
			(6) Horizontal	
			individualism and	
			collectivism	
			significantly interact	
			with the combined	
			effect of PBC with	
			SN and ATT.	
Understanding	Heriyati et	Attitude, Subjective	The opportunity for	(1) Research using a mixed
Contract	al. (2023)	Norm, Perceive	students to commit	method approach.
Cheating		Behavioral Control,	contract fraud will be	(2) Research focuses on
Behavior		Intention to do	higher if:	students who do not
Among		contract cheating	a) They believe that	cheat to see the reasons
Indonesian			contract cheating	why they avoid this
University			provides various	action.
Students: An			benefits (positive	(3) Specify the type of fraud
Application of			attitude towards	in research: university
the Theory of			contract cheating),	entrance exams,
Planned			b) Many of their	assignments, final
Behavior			friends do the same	semester exams, etc.
			thing and expect	(4) Longitudinal research
			them to do it too	
			(subjective norm)	
			c) They can control	
			their contract	
			cheating behavior to	
			avoid being caught	
			(perceived	
			behavioral control).	

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DISCUSSION

Research on Academic Cheating Behavior Based on the Theory of Planned Behavior (TPB) over time.

In recent years, research on academic cheating behavior has become a significant focus, emphasizing developing models based on the theory of planned behavior (TPB). Most of this research adopts a modified Theory of Planned Behavior (TPB), with the addition of variables that are considered relevant. The popularity of academic cheating behavior research based on the TPB increased, especially after Stone and colleagues conducted research entitled "Using the Theory of Planned Behavior and Cheating Justifications to Predict Academic Misconduct." In this research, Stone et al. (2009) wanted to test the theory of planned behavior, which had been modified to predict academic cheating behavior. In his article, Stone claims that this research is different from previous research on academic cheating because it is a theory-based study that aims to test the effectiveness of modifications to Ajzen's Theory of Planned Behavior in predicting academic cheating behavior.

Stone and his colleagues did not stop at previous research; instead, they continued their exploration of academic cheating behavior using a modified theory of planned behavior. In the study of Stone et al. (2010), the integrated variable involves the intention to perform the behavior, which is influenced by factors from the original theory (attitude towards the behavior, subjective norms, and perceived behavioral control) as well as personality characteristics (adjustment and prudence). With the development of academic cheating behavior research based on the Theory of Planned Behavior, more and more research is adopting this theory to predict academic cheating behavior. A Study by Riyanti (2015) titled "Cheating intentions as viewed from the TPB" uses the TPB construct to predict academic cheating behavior. Meanwhile, Chudzicka-Czupała et al. (2016) applied a modified TPB construct, including attitudes toward behavior, subjective norms, perceived behavioral control, moral responsibility, and intention to commit academic cheating behavior.

Wijayanti & Putri (2016) presented research on students' intentions to commit academic fraud by proposing a model based on the Theory of Planned Behavior (TPB), which has been modified into four constructs, namely attitudes toward behavior, subjective norms, perceived behavioral control, and moral responsibility. On the other hand, Lonsdale (2017) conducted research entitled "Intentions to Cheat: Ajzen's Planned Behavior and Goal-Related Personality Facets," which involved variables such as intention to carry out the behavior, friends' and parents' attitudes towards academic dishonesty, as well as perceptions ease of cheating. In the same year, Mustapha et al. (2016) also took a similar approach by examining intentions to commit academic fraud. They used modified TPB construct variables, including attitudes toward behavior, subjective norms, and perceived behavioral control. Uniquely, one of the researchers added the variable Islamic religiosity as an additional factor that might influence the intention to commit academic fraud.

Research on academic cheating behavior using a Theory of Planned Behavior (TPB) based approach to understand and predict the phenomenon of academic cheating behavior continues to be developed. For example, AL-Dossary (2017) has modified the TPB construct by adding past behavior variables and forming five variables to predict academic cheating behavior. In a similar study, Hendy & Montargot (2019) used three TPB constructs and included the conscientiousness variable, considering its similarity to prudence, to strengthen predictions of academic cheating behavior. The following year, Uzun & Kilis (2020) and Dewanti et al. (2020) conducted further research by testing a modified model based on the theory of planned behavior. They involve six adapted TPB constructs, including attitudes toward behavior, subjective norms, perceived behavioral control, moral responsibility, intention to behave, and considering past behavioral variables. Uzun et al. used information literacy and technology as proxy variables for perceived behavioral control. These studies together create a solid foundation for an in-depth understanding of the factors influencing

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academic cheating behavior, as well as demonstrating the evolution and increasing complexity of the models used in this analysis.

In recent research, Ababneh et al. (2022) focused on identifying the main predictors of academic dishonesty among undergraduate business students during the COVID-19 pandemic in the United Arab Emirates (UAE), using the Theory of Planned Behavior (TPB) approach. Ababneh applied the TPB construct and modified it by adding moral obligation and integrating two new variables: individual and contextual predictors. In line with this, research by Zhang (2023) entitled "Academic cheating as planned behavior: the effects of perceived behavior control and individualism-collectivism orientations" also adopted the TPB framework. They explored the role of perceived behavior control as a moderator variable that moderates the relationship between attitudes and subjective norms regarding academic dishonesty behavior. Apart from that, the moderating role of perceived behavior control is also moderated by the cultural element of individualism-collectivism. Similarly, Heriyati et al. (2023) conducted research focusing on the intention to commit contractual academic fraud involving third parties. Although still using the TPB approach, this research further develops this theory to understand academic dishonesty behavior in a more specific context. It is relevant to the dynamics of contracts between individuals.

Research Methods Employed in Academic Cheating Studies

In research on academic cheating behavior, various data analysis techniques have been applied to explore the complexity of relationships between variables. In a study conducted by Stone et al. (2009), a mixed-method approach was applied to gain a more comprehensive understanding of the phenomenon of academic behavior. Quantitative methods are used to measure the influence of each variable. In contrast, qualitative methods are used to explore in more depth whether students have plans to cheat, consider this action because they feel panic, or engage in cheating behavior solely because there is an easy opportunity to do so. The quantitative data collection process was carried out by distributing questionnaires to respondents. In contrast, qualitative data was obtained using openended questions, which allowed researchers to explore a more prosperous and deeper understanding of the reasons behind cheating behavior.

Furthermore, in the research of Stone et al. 2010, the Confirmatory Factor Analysis (CFA) method was used to test and confirm the previously developed theoretical model. Meanwhile, Structural Equation Modeling (SEM) tests and grows more complex theoretical models. With this approach, Stone and his colleagues can make significant contributions to the understanding of the factors underlying cheating behavior through the integration of quantitative and qualitative methods, as well as the application of sophisticated analytical techniques.

In Riyanti's (2015) research, analysis using multiple linear regression correlation was directed at understanding the relationship between the Theory of Planned Behavior (TPB) and the intention to cheat. In contrast, Chudzicka-Czupała et al. (2016) and Zhang (2023) adopted hierarchical multiple regression. Wijayanti & Putri (2016) also chose multiple regression analysis as a data analysis technique in their research, providing more detailed insight into the factors that influence academic behavior. On the other hand, Lonsdale (2017) applied hierarchical regression analysis to test hypotheses and predict academic cheating intentions. In this approach, control variables such as age and gender are entered in Step 1, followed by Theory of Planned Behavior (TPB) variables in Step 2, and goal-related personality dimensions in Step 3.

As the methodology developed, Mustapha et al. (2016) and Uzun et al. (2020) chose Partial Least Squares Structural Equation Modeling (PLS-SEM) as a data analysis technique, providing a more holistic framework for understanding the conceptual structure and relationships between variables. On the other hand, AL-Dossary (2017) and Ababneh et al. (2022) also utilized the Structural

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Equation Modeling (SEM) method to explore the relationship between variables in the context of academic cheating behavior.

In research conducted by Hendy & Montargot (2019), path analysis with 1000 bootstraps in MPlus version 7 was used to test the three proposed hypotheses. This analysis method provides high statistical accuracy and robustness to the relationships between variables, showing dedication to the accuracy of research results. Meanwhile, Dewanti et al. (2020) and (Heriyati et al., 2023) took a sequential mixed approach in their research on cheating intentions among accounting students. In Dewanti et al.'s research, they conducted a regression analysis of quantitative data to understand the relationship between the Theory of Planned Behavior (TPB) variables and cheating intentions in the first phase. The next step involved a qualitative approach by interviewing ten respondents and exploring attitudes based on factors such as gender, duration of research, and type of university. By combining quantitative and qualitative analysis, these studies provide a more comprehensive understanding of the complex dynamics that influence cheating intentions among college students. The various analytical techniques that have been carried out provide a valuable contribution to forming a deeper understanding of the complexity of academic behavior and the factors that influence it.

CONCLUSION

Although research on theory-based academic cheating behavior still needs to improve in terms of numbers compared to research that tends to use demographic, situational, and personality variables, the variability in using these variables is quite diverse. Several studies can be found that have succeeded in integrating personality, psychological, cultural, and environmental factors with the Theory of Planned Behavior (TPB) construct. These studies are diverse in terms of the variables used, the methodological approaches applied, and the use of mixed methods combining quantitative and qualitative approaches. The purpose of using mixed methods is to gain a deeper understanding of the complexity of academic behavior and the factors that influence it.

Through the literature review method in this study, TPB has a significant role as a strong predictor of academic cheating intentions and behavior. In addition, integrating other factors with the TPB construct showed mixed effects. Therefore, further research that examines the TPB and other factors that may influence academic cheating behavior must be carried out.

From the literature review results, it can also be identified that all research collected is crosssectional, providing a picture at one point in time. Therefore, a longitudinal study is needed to provide deeper insight into how fraud intentions and their influencing factors change over time. This initiative is expected to contribute more substantially to understanding the dynamics of academic cheating behavior.

As with most studies, there are limitations to this study. The literature review method used in this study was carried out manually using the connectedpapers.com platform. Therefore, the number of articles that can be accessed is limited, so the articles that can be included in the analysis may not be optimal, and the analysis carried out may need to be more in-depth. It is recommended that further studies be carried out using a systematic literature review approach using special software. This approach can allow more comprehensive access to related articles so that analysis can be carried out more in-depth and holistically. A systematic literature review can also make it easier to identify research gaps for future research focused on TPB-based academic cheating behavior. In this way, it is hoped that it can make a more substantial contribution to the understanding and development knowledge in this field.

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