COPING STRATEGY MODEL OF CYBERBULLY VICTIMS AMONG UNIVERSITY STUDENTS

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MASTER OF SCIENCE (COMPUTER SCIENCE)

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Thesis submitted to the Centre for Graduate Studies, Universiti Pertahanan Nasional Malaysia, in fulfilment of the requirements for the degree of **Master of Science** (**Computer Science**)

ABSTRACT

Several studies on cyberbullying have been conducted by scholars including in Malaysia to understand and evaluate the trend of cyberbullying phenomenon among college university students. Most of the articles on cyberbullying come from psychological and counselling researchers, but there is a need to look at it from the information technology side as it will provide a holistic view on this matter. Being able to create cross disciplines between various fields of knowledge will probably provide better understanding and could hopefully formulate solutions in coping with the situation. The ICT has become the main medium in communication among the students, which is among the factors of increased cyberbullying cases in universities. Besides, the inability of students to react to cyberbullying activities from lack of knowledge, inability to manipulate ICT functions to prevent them from being cyberbullied, and lack of coping strategy model are the main problems to be solved. Therefore, the objectives of this thesis are (1) to identify the appropriate coping strategy for cyberbully-victims; (2) to propose an effective coping strategy model for cyberbully-victim; and (3) to access the students' knowledge on technological prevention action in coping with cyberbullying. This study was conducted at NDUM, Kuala Lumpur using the Approach-avoidance Coping Strategy Model comprises the following constructs: (1) Approach Coping including distal advice; close support; helplessness; retaliation; and technical coping; and (2) Avoidance Coping including assertiveness; and active ignoring. The regression analysis using multinomial logistic regression results identified only two variables that were significantly associated with the coping action, namely Distal Advice (t=4.857, p<0.05); and Technical Coping (t=4.519, p<0.05). This research evidenced that almost all the students are aware of the cyberbullying phenomenon caused by technological usage and applied the preventive approach of distal advice and technical coping. Even though they possess the knowledge of coping actions, there is still a percentage of those who do not. There is a need for guidelines of practices that universities must provide for students if they are being cyberbullied. Therefore, this study proposed the coping strategy of cyberbullying guidelines for university students.

ABSTRAK

Beberapa kajian mengenai buli siber dijalankan sarjana termasuk di Malaysia untuk memahami dan menilai trend fenomena buli siber dalam kalangan pelajar universiti. Kebanyakan artikel mengenai buli siber berasal dari penyelidik psikologi dan kaunseling. Namun, ia perlu dilihat dari sisi teknologi maklumat kerana ia akan memberikan pandangan holistik mengenai perkara ini. Ini mungkin mampu mewujudkan disiplin silang antara pelbagai bidang ilmu yang akan memberikan pemahaman yang lebih baik dan diharapkan dapat merumuskan penyelesaian dalam menghadapi situasi tersebut. ICT kini menjadi medium komunikasi utama para pelajar, yang mana ia merupakan salah satu faktor peningkatan kes buli siber di universiti. Selain itu, ketidakupayaan pelajar untuk bertindak balas terhadap aktiviti buli siber kerana kurang pengetahuan, ketidakupayaan untuk memanipulasi fungsi ICT untuk mengelakkan mereka daripada menjadi mangsa pembuli siber dan kekurangan model strategi daya tindak merupakan masalah utama yang perlu diselesaikan. Oleh itu, objektif tesis ini adalah (1) untuk mengenal pasti strategi yang sesuai untuk mengatasi dari menjadi mangsa buli siber; (2) untuk mencadangkan model strategi mengatasi yang berkesan untuk mangsa buli siber; dan (3) untuk mengakses pengetahuan pelajar tentang tindakan pencegahan teknologi dalam menangani buli siber. Kajian ini dijalankan di UPNM, Kuala Lumpur menggunakan Model Strategi Daya Tahan Pendekatan-penghindaran terdiri daripada konstruk berikut: (1) Pendekatan Mengatasi termasuk nasihat distal; sokongan rapat; ketidakberdayaan; pembalasan; dan daya tahan teknikal; serta (2) Mengatasi Penghindaran termasuk ketegasan dan aktif mengabaikan. Analisis regresi menggunakan hasil regresi logistik multinomial hanya mengenalpasti dua pembolehubah yang mempunyai hubungan yang signifikan dengan tindakan daya tindak iaitu Nasihat Distal (t=4.857, p<0.05); dan Daya Tahan Teknikal (t=4.519, p<0.05). Kajian ini membuktikan bahawa hampir semua pelajar sedar tentang fenomena buli siber yang disebabkan penggunaan teknologi dan menggunakan pendekatan pencegahan nasihat distal dan penanggulangan teknikal. Walaupun mereka mempunyai pengetahuan dalam mengatasi masalah ini, masih terdapat segelintir antara mereka yang tidak. Terdapat keperluan garis panduan amalan yang mesti disediakan universiti untuk pelajar jika mereka dibuli siber. Oleh itu, kajian ini mencadangkan garis panduan menangani buli siber untuk pelajar universiti.

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APPROVAL

The Examination Committee has met on **18 May 2022** to conduct the final examination of **Mohammad Aminul Haq bin Mohd Ghazali** on his degree thesis entitled **Coping Strategy Model of Cyberbully Victims Among University Students**

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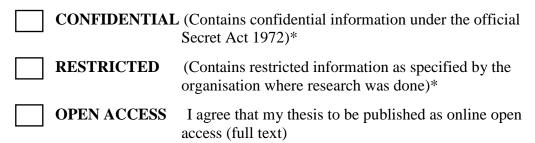
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Academic session	: 2017/2018

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TABLE OF CONTENTS

TITLE

ABSTRACT		ii
ABSTRAK		iii
ACKNOWLED	OGEMENTS	iv
APPROVAL		v
APPROVAL		vi
DECLARATIC	ON OF THESIS	vii
TABLE OF CC	DNTENTS	viii
LIST OF TABI	LES	X
LIST OF FIGU	RES	xii
LIST OF ABBI	REVIATIONS	xiii
LIST OF SYM	BOLS	xiv
LIST OF APPE	ENDICES	XV
CHAPTER 1	INTRODUCTION	16
	1.1 Introduction	16
	1.2 Research Background	17
	1.3 Problem Statement	20
	1.3.1 Lack of Coping Strategies for Cyberbully.	20
	1.3.2 Need of guidelines for cyberbully coping	
	strategies	21
	1.3.3 Problem about Technologies Awareness for	
	Preventing Cyberbully	21
	1.4 Research Question	22
	1.5 Research Objective	23
	1.6 Research Scope	23
	1.7 Significance of Research	24
	1.8 Research Limitation	25
	1.9 Organization of the Report	25
	1.10Summary	27
CHAPTER 2	LITERATURE REVIEW	29
	2.1 Introduction	29
	2.2 Cyberbullying Phenomenon	29
	2.2.1 Traditional bullying	30
	2.3 Cyberbullying Cases	33
	2.4 Theoretical Background Applied in	
	Cyberbullying	35
	2.4.1 The Transactional Model.	35
	2.4.2 The Approach-Avoidance.	37
	2.5 Cyberbullying Factor Demographic Variables	47
	2.6 Coping Strategy	49

	2.7 Conceptual Model	59
	2.8 Summary	60
	2.9 Summary	60
CHAPTER 3	RESEARCH METHODOLOGY	63
	3.1 Introduction	63
	3.2 Research Method	63
	3.3 Research Design	64
	3.3.1 Phase I- Literature Review	65
	3.3.2 Phase 2: Preliminary Study	72
	3.3.3 Phase 3: Model Development	93
	3.4 Summary	108
CHAPTER 4	RESULTS AND DISCUSSIONS	109
	4.1 Introduction	109
	4.2 Measurement Model	110
	4.2.1 Demographic Characteristic	110
	4.2.2 Data Filtering	125 131
	4.2.3 Factor Analysis 4.2.4 Factors Associated with Coping Action	131
	4.2.4 Factors Associated with Coping Action 4.3 Findings	133
	4.4 Discussion	137
	4.5 Conclusion	145
CHAPTER 5	CONCLUSION AND RECOMMENDATIONS	146
	5.1 Introduction	146
	5.2 Research Conclusion	146
	5.2.1 To identify the Appropriate Coping	
	Strategy for Cyberbully-Victims	146
	5.2.2 To propose an Effective Coping Strategy	
	Model for Cyberbully-Victim	147
	5.2.3 To Access the Students' Knowledge on	
	Technological Prevention Action in	
	Coping with Cyberbully	148
	5.3 Research Contributions	149
	5.3.1 Theoretical Contribution	149
	5.3.2 Practical Contribution	150
	5.4 Strength of Study	151
	5.5 Limitations	151
	5.6 Implication of Study	152
DEFEDENCES	5.7 Future Works	152
REFERENCES APPENDICES		153 165
APPENDICES		105
APPENDICES		172
BIODATA OF		182
LIST OF PUBI		182
APPENDICES		181

LIST OF TABLES

TABLE N	O. TITLE	PAGE
Table 1.1:	Cyberbully-victims (Lai, Lee, & Salleh, 2017)	16
Table 1.2	Previous Research on Cyberbully among Undergraduate Students	18
Table 1.3	Cyberbullying in Malaysia from IPSOS	19
Table 2.1	Cyberbully Definition	32
Table 2.2	Summary of Previous Model	41
Table 2.3	Summary of Gap Analysis	45
Table 2.4	Demographic Factor of Cyberbullying	47
Table 2.5:	Social media guidelines adopted from Bullying UK (2021)	57
Table 3.1	Overview of Research Done	65
Table 3.2	Quality Assessment Criteria (Okoli, 2010)	68
Table 3.3	The Summary of the Quality Assessment	68
Table 3.4	Result of the Quality Assessment	69
Table 3.5	Summary from Previous Research	69
Table 3.6	Factors that Influence Cyberbullying Coping Action	70
Table 3.7	Questionnaire Adopted	73
Table 3.8	Expert Reviewer Profile	83
Table 3.9	Open-ended Question	84
Table 3.10	Interview Session Result	87
Table 3.11	Reliability Test for Pilot Study	90

Table 3.12	Total Item Reliability Test	90
Table 3.13	Total number of NDUM students	93
Table 3.14	Determination of Sample Size (Krejcie & Morgan, 1970)	94
Table 3.15	Questionnaire for Coping Strategy	97
Table 3.16	Questionnaire for Approach Coping Strategy Element	98
Table 3.17	Questionnaire for Avoidance Coping Strategy Element	100
Table 3.18	Summary of Analysis	107
Table 4.1	Summary Summary of Descriptive Statistic of Respondents Characteristic (N=259)	111
Table 4.2	Type of Social Media Used by Respondents (N=259)	113
Table 4.3	Respondent's Cyberbully Experience (N=259)	115
Table 4.4	Respondent's Attitudes towards Coping Action Variables (N=259)	118
Table 4.5	Determination of the level of coping action mean and standard deviation (overall).	123
Table 4.6	Rating of the score for coping action.	123
Table 4.7	The Overall Respondents Behaviour	124
Table 4.8	Overall Croabach Alpha	125
Table 4.9	Internal Consistency Reliability	127
Table 4.10	Normality Test	129
Table 4.11	Total Variance Explained by Coping Action	131
Table 4.12	Comparison of Coping Action and Factors Resulting from Factor Analysis	135
Table 4.13	Correlation Test	137
Table 4.14	Coefficients ^a	139

LIST OF FIGURES

FIGURE N	NO. TITLE	PAGE
Figure 2.1	The transactional model (Lazarus and Folkman, 1984)	37
Figure 2.2	The approach-avoidance (Roth & Cohen, 1986)	38
Figure 2.3	Conceptual Framework of Study	60
Figure 3.1	Frequency of Influencing Factors	72
Figure 3.2	Conceptual Framework of Study	101
Figure 4.1	QQ Plot	130
Figure 4.2	Research Model	141

LIST OF ABBREVIATIONS

ANN	-	Artificial Neural Network
GA	-	Genetic Algorithm
PSO	-	Particle Swarm Optimization
MTS	-	Mahalanobis Taguchi System
MD	-	Mahalanobis Distance
TM	-	Taguchi Method
UTM	-	Universiti Teknologi Malaysia
XML	-	Extensible Markup Language
ANN	-	Artificial Neural Network
GA	-	Genetic Algorithm
PSO	-	Particle Swarm Optimization

LIST OF SYMBOLS

δ	-	Minimal error
D,d	-	Diameter
F	-	Force
v	-	Velocity
р	-	Pressure
Ι	-	Moment of Inersia
r	-	Radius
Re	-	Reynold Number

LIST OF APPENDICES

APPENDIX	TITLE	PAGE
Α	Questionnaire	163
В	Expert Interviews	169
С	Student Biodata	179

CHAPTER 1

INTRODUCTION

1.1 Introduction

This chapter discusses the overview of this study by focusing on the research background, problem statement, research objectives, research scope, as well as the significance and limitation of this research. Cyberbully become a trend among university students nowadays. Research done by Lai, Mohaffyza, Lee, & Salleh (2017) evidenced that 66% of 712 respondents from public and private universities reported that they have been cyberbullied. The results of their findings are tabulated in Table 1.1.

Table 1.1:Cyberbully-victims (Lai, Lee, & Salleh, 2017)

	Was Cyberbullied	Not Cyberbullied
Number of respondents	470 (66.0%)	242 (34.0%)
Male	206 (56.2%)	104 (43.0%)
Female	264 (43.8%)	138 (57.0%)
Malays	278 (74.3%)	96 (25.7%)
Chinese	27 (43.8%)	36 (56.2%)
Indian	57 (52.3%)	52 (47.7%)
Borneo native tribes	105 (65.6%)	55 (34.4%)
Other	2 (40.0%)	3 (60.0%)

1.2 Research Background

Managing cyberbullying in an organisation requires a comprehensive approach including process, procedure and facilities of ICT to ensure the technology can be optimised as a tool to develop organisation performance rather than demolish the good culture into disaster. ICT is not the factor of the cyberbullying phenomenon, but rather youngsters decide to manipulate ICT devices in an anti-social way that foster their mental development and wellbeing tremendously in a negative manner (Heirman and Walrave, 2012). More individuals are using the ICT (Walrave & Heirman, 2011), high level of computer and Internet skills (Vandebosch & Van Cleemput, 2009) as well as patterns of risky Internet usage for long hours (Erdur-Baker, 2010), which impact cyberbullying perpetration attitudes. Smartphones have significantly changed human social interaction and have been used for a variety of purposes. Served as the Internet-enabled device, it offers vast utilisation purposes such as exchanging, exposing, gaining, and exploring information. It also enables information exposure publicly with the existence of social media. Social media has become a means for connecting people at anytime and anywhere but on certain occasions being misused as a tool to humiliate, harass and flame other people. These acts may sometimes be interpreted as jokes, but making fun of other people publicly are considered a bully in cyberspace. There are a lot more abusive acts that social networking could offer. Cyberbullying or harassment is considered the third dangerous threat in Malaysia (Rashid, 2017). Cyberbullying normally gives a negative impact on the victims and most of its cases lead to undesirable outcomes. It is essential to identify what drives the offenders to be cyberbullies and the platform they use, as it will help to understand their behaviour. Understanding cyberbullying behaviour will give some ideas on how to tackle these situations (Hua et al., 2019). Other aspects to be looked into are the coping actions taken by the victims and the platform in which they are being bullied to find the best practice and understand the consequences of using the social media platform as interactive tools to share most of our activities.

Cyberbullying is defined as intentional misconduct performed by an individual or a group of people using electronic forms of contact communication repeatedly and overtime against undefended victims (Sticca et al., 2015; Smith, et al., 2008). According to Garett et. al. (2016), the use of social media is the cause of the increasing number of cyberbullying cases. They also stressed the impact of cyberbullying on public health as it could lead to mental and behavioural health issues including the risk of suicide attempts by the victims (Bottino et.al, 2015).

Author and population	Number of Sample	Had been cyberbullied	Knew someone who had been cyberbullied	Had cyberbullied others
Finn (2004) –	339	10-15%	-	-
University of				
New Hampshire				
MacDonald and	439	21.9%	38%	8.6%
Roberts-Pittman				
(2010) – College				
students				
Kraft & Wang	471	9%	-	-
(2010) – Public				
Liberal Art				
College				
Pena (2011) –	-	22%	42%	-
Indiana State				
University				

Table 1.2 Previous Research on Cyberbully among Undergraduate Students

The percentage of previous research on the prevalence of cyberbullying among undergraduate students by Johnson et al. (2016) is simplified in Table 1.1. The purpose of the research done by Johnson et al. (2016) was to explore the college students' experience of cyberbullying through social media.

The ASEAN Post published on September 21, 2020, reported that the United Nations Children's Fund (UNICEF) had done a poll in 2019 for violence against children in 30 countries. According to the report, three in 10 young people in Malaysia admitted that they have been bullied in cyberspace. Meanwhile, another study conducted by the market research firm (IPSOS) in 2018 revealed that one in four Malaysian children had experienced cyberbullying according to their parents. The tabulation of IPSOS findings is tabled in Table 1.2.

		Malaysia (%)	Global Average(%)
Platform used for	Social Media	71	65
Cyberbullying	Mobile	57	45
	Online Messaging	33	38
	Online Chatroom	31	34
Cyberbullies	Classmate	53	51
(Types)	Young Person,	39	30
	Stranger		
	Adult, Stranger	36	28

Table 1.3Cyberbullying in Malaysia from IPSOS

Source: IPSOS, 2018

1.3 Problem Statement

The emerging technology revolution provides a new platform for the bullying phenomenon in the community, especially for adolescents. With the advent and popularity of the internet, other electronic gadgets and systematic electronic classrooms (e-learning), a new form of bullying called cyberbullying has emerged (Runions et al., 2017). An example, E-learning allows broader social context including inter-region and could expand to a new form of complex social relations that shape the cyberbullying phenomenon among the community (Mason, 2008). Previous studies have highlighted that there is a need for family members to play their role in preventing students from becoming cyberbullies or cyberbully victims (Mason, 2008; Killer et al., 2019; Wang, Iannotti & Nansel, 2009). Community involvement will be important in shaping the students in using the ICT skills with good behaviour since wrongly used skills were identified as the key in cyberbullying perpetration and victimisation (Li, 2010; Runions et al., 2017; Walrave and Heirman, 2011).

1.3.1 Lack of Coping Strategies for Cyberbully.

The coping strategies were the actions that can be taken by the cyberbully victims. Thus, the management needs to provide assessable supportive personnel that can be relied on by students as well as effective and adequate tools in dealing with the cyberbullying phenomenon. Previous scholars identified that most of the cyber-victims recognised their cyber-bullies; hence, it is important to educate these

people on technological awareness and protection (Mazni, Zeti and Aini, 2016). For instance, online privacy protection and anonymous reporting can be used to promote more proactive measures, especially for bystanders who fear retaliation (Balakrishnan, 2018).

1.3.2 Need of guidelines for cyberbully coping strategies

Previous research on cyberbullying evidenced that the incidents in higher learning institutions in Malaysia have reached an alarming level (Figure 1.3); their findings also indicated that the cyberbully-victims have experienced mental and physical issues such as they would likely experience depression, anxiety, and low self-esteem (Nixon, 2014; Lai, Mohaffyza, Lee, & Salleh, 2017). Thus, there is a need for effective coping actions guidelines for cyberbully victims to identify the actions they can take. Guidelines have yet to be provided for university students on coping actions when they experience cyberbullies (I. Nor Faizah, personal communication, December 14, 2021). Nonetheless, the victims will be assisted and guided on what actions they could take if being cyberbullied they should seek psychological advice. Most of the time, cyberbully victims only choose their coping actions according to their instinct during that time and do not report the incidents.

1.3.3 Problem about Technologies Awareness for Preventing Cyberbully

Several studies on cyberbullying have been conducted by scholars including in Malaysia to understand and evaluate the trend of cyberbullying among college university students (Faryadi, 2011; Noh & Ibrahim, 2014; Rashid et. al., 2017). For example, Ghazali et. al. (2017) conducted a qualitative to evaluate the perception of cyberbullying among Malaysian youth; Mazni, Zeti and Aini (2016) examined the cybercrime awareness among the active internet users related to the law of communication; and Golbeck et al. (2017) studied the online comments and other social media posts about the harassment or threatening element as tools to be analysed. Most of the articles on cyberbullying come from psychological and counselling researchers, but there is a need to look at it from the information technology side as it will provide a holistic view on the matter. Being able to create cross disciplines between various fields of knowledge will probably provide better understanding and hopefully formulate solutions in coping with the situation.

1.4 Research Question

Based on the problem statement discussed above, it is necessary to formulate a model through coping strategies for cyberbullying in assisting the victims. The research questions addressed for the above problem statements are:

- a. What is the coping strategy that the cyberbully victim should adopt?
- b. What is the effective model in coping with cyberbullying?
- c. How to prevent being cyberbullied through technological practices?

1.5 Research Objective

This research aims to propose an effective coping strategy for cyberbully victims as a reactive and preventive action. Based on the above research question, the research objectives are described as follow:

- a. To build the appropriate coping strategy for cyberbully victims.
- b. To validate an effective coping strategy model for cyberbullying.
- c. To identify the students' knowledge on technological prevention action in coping with cyberbullying.

1.6 Research Scope

As a university student, the social media environment has become a primary platform in developing the relationship between peers and is used to coordinate social activities. This study focuses on cyberbully coping strategies for university students with the following scopes:

- Even though this research is meant for university students, this study was done to the students of the National Defence University of Malaysia (NDUM) located at Sungai Besi Camp, Kuala Lumpur due to data accessibility.
- b. Due to the Covid-19 pandemic, the research could only be done on the officer cadet as they are available on the campus. The selection of