

1111

11111

RESEARCH INNOVATION COMMERCIALISATION & ENTREPRENEURSHIP SHOWCASE

HUMANIZING INNOVATION



EDUCATION & SOCIAL SCIENCE SOCIAL INNOVATION

ana antipation and a second

dilli.



RICES 2021: EDUCATION & SOCIAL SCIENCE | SOCIAL INNOVATION

RICES Editorial Team

Advisor: Prof. Ir. Dr. Hairul Azhar Bin Abdul Rashid

Chief Editor: Prof. Ir. Dr. Lim Heng Siong

Editor: Mr. Ahmad Rizal Bin Selamat

Editorial and Design: Ms. Helen Nonis Ms. Iwani Khairul Ms. Qistina Binti Ruslan Mr. Muhamad Hanis Aiman Bin Syed Mohd Muntazar

The publisher hereby records its gratitude to individuals who have helped in one way or another to make this book project a reality.



Published by MMU Press Research Management Centre Multimedia University 2nd Floor, Chancellery Building Persiaran Multimedia 63100 Cyberjaya Selangor Darul Ehsan

© 2022

Universiti Telekom Sdn. Bhd. This work is published to the public under a Creative Commons Attribution-NonCommercial-No Derivatives 4.0 International License. A copy of the license is available at https://creativecommons.org/licenses/by-nc-nd/4.0

Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Research Innovation, Commercialisation and Entrepreneurship Showcase

(5th : 2021 : Online)
RICES 2021 : RESEARCH INNOVATION, COMMERCIALISATION AND
ENTREPRENEURSHIP SHOWCASE : HUMANIZING INNOVATION : EDUCATION
& SOCIAL SCIENCE, SOCIAL INNOVATION / Chief Editor: Prof. Ir. Dr. Lim Heng
Siong ; Editor: Mr. Ahmad Rizal Bin Selamat.
Mode of access: Internet
eISBN 978-629-97040-6-5
1. Education, Higher--Malaysia--Exhibitions.
2. Universities and colleges--Malaysia--Exhibitions.
3. Social sciences--Malaysia--Exhibitions.
4. Education--Malaysia--Exhibitions.
5. Electronic books.
1. Lim, Heng Siong, Prof., Ir., Dr. II. Ahmad Rizal Selamat.
III. Title.
378.595

Copy-edited by Ahmad Rizal Bin Selamat Designed by Muhamad Hanis Aiman Bin Syed Mohd Muntazar Typeset by Iwani Khairul and Helen Nonis

Contents

FOREWORD

VICE PRESIDENT RESEARCH AND INDUSTRIAL COLLABORATION AND ENGAGEMENT (RICE)	vi
CHAIRPERSON OF RICES 2021	vii
HEAD OF MMU PRESS	viii

EDUCATION & SOCIAL SCIENCE

A Framework to Measure Mental Health Awareness of Secondary Students	1
A Mixed Methods of Social Commerce Usability Cases	2
A Model in Reducing Workplace Accidents and Injuries in SMEs Manufacturing Industries	3
Acceptance of E-mental Health Among Digital Talent	4
An Examination of Cryptocurrency Adoption Among Investors in Malaysia	5
Animated Learning Agent: Do the Messages Matter?	6
Biodiversity, Greenery, In Housing Development, and Settlement Intention: A Proposed Framework	7
Determinants of Psychosocial Factors for Sustainable Green Volunteerism Among Malaysian Youth	8
Developing a Framework for Improving Corporate Value and Efficiency in Malaysia Through Effective Environmental, Social and Governance (ESG) Criteria	9
Engagement Levels Among Academics in Malaysian Private Higher Educational Institutions	10
Enhancing Legal Protection of Stray Animals Welfare Through Society Intervention	11
Exploring the Psychological Profile of Individuals Vulnerable to Fake News	12
Exploring the Role of Ethical Leadership on Employees' Turnover Intention: Does Organizations' Ethical Climate and Employees' Emotional Exhaustion Play a Role?	13
Factors Influencing the Effectiveness of Petrol Subsidy Program in Malaysia	14
Financial Literacy and Financial Well-Being of B40 Young Adults: A Capability Perspective	15

Formulation of a Legal Framework for Machine-Readable Smart Contracts	16
Generation Z Shoppers Repurchase Intention Towards Shopee Mobile Application	17
Impulse Buying's Antecedent and Consequence: Malaysia e-Wallet Users Perceptions	18
Instilling Entrepreneurial Mindset Towards University Students by Using the Hustler Board Game	19
Knowledge, Barriers and Intentions on Screening and Vaccination Against Cervical Cancer: A Study Among Women in Malaysia	20
Left and Right Brain Balancing Application with EEG Neurofeedback System	21
Legislative Approach in Managing Environment Pollution by Alien Fish Species in Malaysia	22
Malaysia Public Healthcare Psychological Work Environment Towards Better Employee Psychological Well-Being & Mental Health	23
Mobile Learning App for Special Education (Baca BersamaMu)	24
Modelling Accounting Profession's Adoption and Readiness of Digital Technologies	25
Modelling of Well-Being Index with Mindfulness for B40 and M40 Households in Malaysia	26
Online Youth Volunteerism: An MMU Experience	27
Peer Mediation in Higher Education Institutions in Malaysia	28
Readiness of Private University Accounting Students Towards Industrial Revolution 4.0	29
Risk Management of Cloud Computing Projects in Healthcare	30
Shifting Volunteerism from the Reality into the Digital World: Perspective from Young Millennials	31
Successful Coping Practices for Digital Teaching During Movement Control Order in Malaysia	32
Sustainable Entrepreneurship in Malaysian Companies	33
Teaching and Learning of Mathematics with EduBot	34
The Determinants of Farmer's Adaptation to Climate Change: A Case Study in Cameron Highlands	35
The Online Grocery Shopping Adoption Among Elderly in Malaysia	36

The Proposal of Regulatory Model on Cyber Security for Financial Technology (FINTECH) Adoption in Islamic Finance in Malaysia	37
Undergraduates' Perception on Distance Learning During Pandemic	38
Using The Goldilocks Principle of Digital Learning Strategies to Achieve Lifelong Learning: An Omnitemporal Skill for Tertiary Students	39
Social Innovation	
An Energy Efficient Automatic Control Poultry Egg Incubator	41
BUBBABOOP	42
Budget Food House	43
Customer Engagement with Social Media Interactive Advertising and Their Purchase Intention of SMEs Products	44
Digital Engagement Strategy for Awareness Program	45
Form Recognition and Optical Character Recognition for Claims Automation	46
Microsoft Teams an Effective Tools for Formative Assessment	47
MPCEN - Media Project on Conservation Environment & Nature	48
<i>Mr. Doctor</i> (Virtual Clinic App)	49
Pm Tepi	50
Sagolicious	51
Sign Language Translate and Learning App	52
Student Volunteer as a Catalyst for Social Innovation	53
The Changemaker Academy	54
Virtual Confinement & Postnatal Care Centra	55
Wastewater Treatment System with TiO2 Embedded 3-D Printed Structure	56
ACKNOWLEDGEMENT	57

FOREWORD

VICE PRESIDENT, RESEARCH AND INDUSTRIAL COLLABORATION AND ENGAGEMENT (RICE)

RICES 2021 with its overarching theme of Humanising Innovation was a huge success and I am extremely pleased with its outcome. This beautiful and meaningful event will not be a success without the dedication, teamwork, creative mind-sets, and hard work by many of us in the Research, Industrial Collaborations and Engagement Division. I am certain that we will be able to continuously and successfully organise this event for many years to come.

I would also like to thank all the committee members for your relentless assistance for this event. The event that marks our DNA to profoundly rethink on ways we can compete in this next-generation, more-human digital world, which is obviously an unclaimed territory. Your contributions are really valuable and precious for the new generations so called the digital natives.

With the help of your hand, we have had a strong 129 participations from various institutions, local and overseas. Personally, I believe this is a big movement to keep pushing and promoting digital, visionary innovation.

To all participants, believe in the creative vibes in you. Continue to churn out new inventions and innovations, let RICES rise to its purpose in providing the stage for the researchers and innovators to freely express your ideas.

Prof. Ir. Dr. Hairul Azhar Bin Abdul Rashid Vice President Research and Industrial Collaboration and Engagement Multimedia University

FOREWORD

CHAIRPERSON OF RICES 2021

On behalf of the Committee, it is my pleasure to welcome you to the 5th Research Innovation, Commercialisation and Entrepreneurship Showcase 2021 (RICES 2021) held virtually on 16 November 2021. RICES provides a platform for the participants to showcase their latest inventions, innovations, and R&D commercialisation achievements. It also provides the opportunity for the participants to receive feedback and develop new partnerships with existing and new collaborators and investors. We are pleased to present the proceedings of the exhibition as its published record.

There are two categories of showcase under RICES 2021 - Research Project Showcase and Social Innovation Project Showcase. Despite the challenging COVID-19 pandemic situations, we received 129 submissions from different countries, representing a slight increase compared to the submissions under these two categories for RICES 2020.

This event is the result of the hard work of many people. We want to express our appreciation to the members of the Organising Committee and the external reviewers for their efforts in evaluating the submissions. We also thank our event sponsor, Keenon Robotics and Prof. Fabian Kung (FOE, MMU), for sharing their robots with us for the opening ceremony. The event would not be possible without the excellent inventions contributed by the participants. We thank all the inventors for their contributions and participation in RICES 2021!

We hope this event will further inspire technological innovations that will benefit humanity.

Prof. Ir. Dr. Lim Heng Siong CHAIRPERSON of RICES 2021 Deputy Director, Research Management Centre Multimedia University

FOREWORD

HEAD OF MMU PRESS

I am delighted to write this foreword, not only because Research Innovation, Commercialisation and Entrepreneurship Showcase 2021 (RICES 2021) has been successfully documented in this special edition, but also because the quality of the research papers, various inventions, innovations, and R&D commercialisation achievements are of a high standard. Congratulations to all the participants, and may RICES become the platform for you to achieve greater heights in the future.

It is our utmost hope that MMU Press mission will be an internationally recognised academic press. Its spirit is to connect Multimedia University (MMU) with the larger communities and institutions through innovative and inspiring writings. I believe this book can help researchers, academics, students, and industry players to further develop a shared vision and understanding of the digital world and what it offers. Kevin Colleran, one of Facebook's earliest employees who spoke about staying true to his entrepreneurial spirit says, "If you can't imagine a world different from the one you see today; you will never be able to build a better one."

I would like to humbly thank various people who made MMU Press publications a success especially in its RICES 2021 publications. All these achievements are made possible due to strong commitment by all, especially the Coordinator of Special Publication – Dr. Tan Yi Fei, chief editors, editorial team members and the project leaders, who have contributed to the publication of RICES 2021. The engagement, dedication, commitment, and effort dedicated to this book are indeed beyond words. Thank you and let's make MMU Press be the beacon of knowledge.

Assoc. Prof. Dr. Tan Siow Hooi Deputy Director, Research Management Centre (Head of MMU Press) Multimedia University



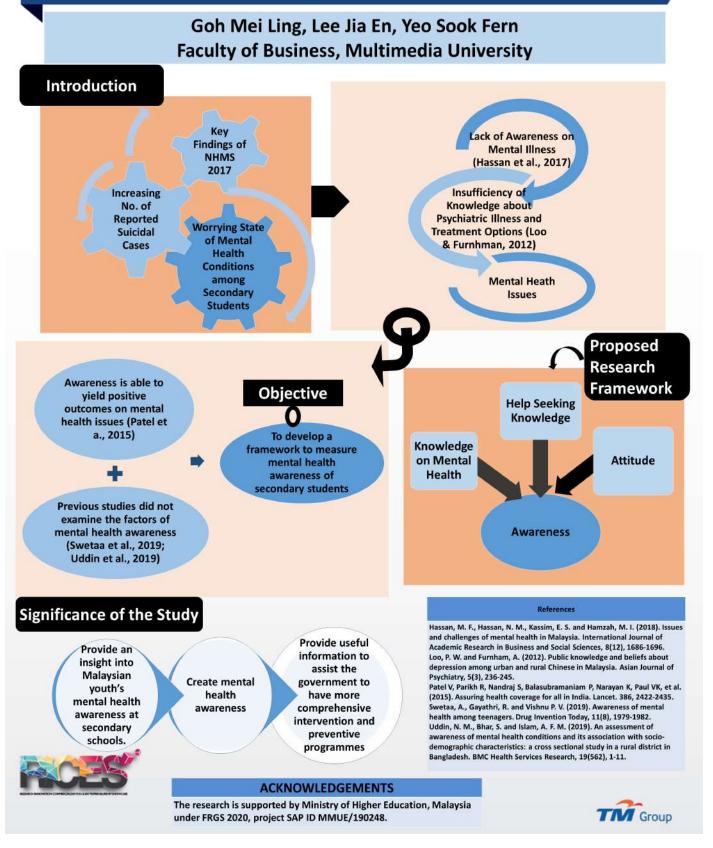
EDUCATION & SOCIAL SCIENCE







A FRAMEWORK TO MEASURE MENTAL HEALTH AWARENESS OF SECONDARY STUDENTS





A MIXED METHODS OF SOCIAL COMMERCE USABILITY CASES

Pei-Earn Soo, Han-Foon Neo, Thian-Song Ong, Faculty of Information Science and Technology, Multimedia University ernest.mmu@gmail.com, hfneo@mmu.edu.my, tsong@mmu.edu.my

USABILITY TESTING MODEL

DEMOGRAPHIC PROFILE

61 26

> 19 54

1 n Usability +Easy to use +Ender using

+Encer to parchase • Know to communicate • Encer to use forum

70.1 29.9 2.3 63.2 34.5

2.3 3.4 11.5 82.8

5.7 21.8 62.1 10.3

21.8 36.8 25.3 16.1

77.0

-Allow o -Provide recomm

Satisfaction -foor contonous -Wiruse in Future -Satisfied with the p

w 20 0-22 23 and abo

ice a

nce a week to 3 days a week or 2 hours a day lore than 3 hours

ce Exp

is than 1 year ear but less than 3 year

ABSTRACT

INTRODUCTION

RESEARCH QUESTIONS



RESEARCH OBJECTIVES



LITERATURE REVIEW









QUALITATIVE RESULTS

ONE SAMPLE STATISTICS





ONE SAMPLE T TEST

Warridhee	8	Sta. (2-brive)	Mean Difference	97% Costdence	Internet of the Different
	1.2		2.10050103	Low	Noper
Usability	9385	.009	79437	ALLY.	8170
Functionality	18.535	808	79683	6479	9495
Rockel	18,280	000	.8158T	8534	8175
Autopola	8,525	.000	.77770	600	
(annelly	7.4%	002	.03452	1589	2019
Robella first	8.125	809	71787	sen4	ater



QUANTITATIVE RESULTS

were female. For o 63.2% were 20.10.2 Internet usage, 2.3 a week, 11.5% used	70.1% of the respondents were mote, 29.9% ge (2.3% of the respondents were below 20 2 years old 34.5% were 23 and above. For 5 used once a week, 3.4% used 2 to 3 days 1 or 2 hours a day, 18.8% used more than 3 commerce usage, 5.7% used daily (21.6%
used weekly, 52.1% e-commerce befo 21.8% were used is	 used monthly and 9% never use ka. For how long e-commerce were used, as fran 1 year, 36.8% were used 1 year but 5.3% were used between 3 years to 5 years.
16.1% were used m	nore than 5 years. For a commerce were 77% aware of a commerce, 23% were
in conservation stat	futire. 3 is used on test worker. This is become

COMMERCIALISATION VALUES



REFERENCES

	I] E-commerce. (2021). En wikipedia org, Rehieved I. October 2021. om https://en.wikipedia.org/wiki/E-commerce
	 Social Media (2021). En wikipedia org. Rehieved 1 October 2021, om https://en.wikipedia.org/wiki/Social.media
	 Statista - The Statistics Portial for Market Data, Market Research nd Market Studies. (2021). Statista.com: Rehieved 5 October 2021. om https://www.statista.com/
0.6	 Nuang, Z. & Berwouset, M. (2012). From e-commerce to social ammerce: A clase look of design features. Excitante Commerce sesansth and Applications, 12(4), 246–259. http://doi.org/10.1016/j.ei- top.2012.12.003
a	 Curty, R. G. & Zhang, P (2011). Social commerce: Looking back nd forward. Proceedings of the ASBI Annual Meeting. 48. https://- ol.org/10.1002/meet.2011.14504801096
ROD	SjAlcántara Pilar, Juan & Blanco Encomienda, francisca & Armenski, nnja & Del Barrico Garcia, Solvador (2018), The antecadent Jole of mine astitytacion, poceskvel site anime, and peaceireal website uzo- etty on the affect towards travel destinations. Journal of Destination Inskeling and Naragement & 20-25. (10.1016), Jaim, 2017.00.005.
-	PHrichtiffe, Anetto & Mummery, William. (2008). Applying usability sting techniques to improve a health plannolan website. Health remotion journal of Austolian. Associa- on of Health Promotion Professionals. 19: 29-38. 10.1071/H606029



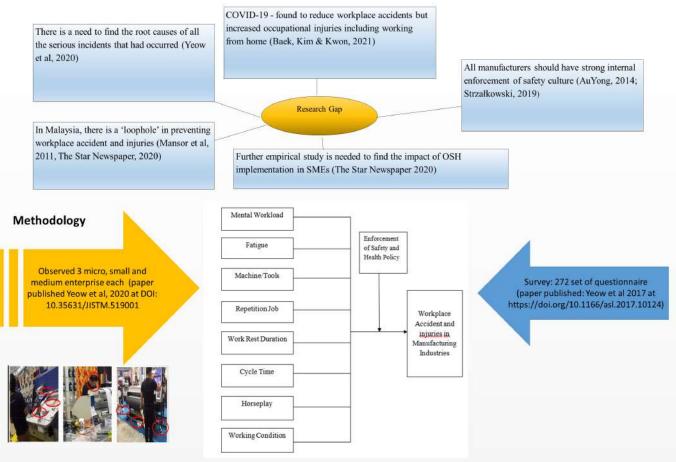


A Model in Reducing Workplace Accidents and Injuries in SMEs Manufacturing Industries

Dr Yeow Jian Ai (MMU), Aliff Imran Bin Norazman(MMU), Dr Cheah Chew Sze (MMU) Afandi bin Yusof (MMU)

Introduction

In 2018 alone, there were more than 2700 workplace accidents which led to disabilities and death. A workplace accident would result in a no-win situation for a company. Manufacturing sectors in Malaysia make the highest claims from the total cost of accidents and injuries. The potential outcome of this study is to improve OSH awareness among manufacturers for a more sustainable future in their business, employment, and social well-being.



Results and Conclusion

One of the independent variables, Horseplay did not show any significant relationship with human error. The multiple regression analysis in this study revealed that mental workload, fatigue, repetition job, work-rest duration and cycle time have significant relationship with human error. These five variables explain 37.5 percent of the variance associated with workplace accident and injuries. A moderating variable, enforcement in safety and health was analysed using PROCESS modelling. This study shows that there are moderating effect between the independent variables and dependent variables, except horseplay and cycle time. This study ends with discussion and interpretation of the research findings and provides some contribution and implication to SMEs manufacturing industry, DOSH and employees.



References:

- Baek, E-M.; Kim, W-Y; Kwon, Y-J. The Impact of COVID-19 Pandemic on Workplace Accidents in Korea. Int. J. Environ. Res. Public Health 2021, 18, 8407. https:// doi.org/10.3390/ijerph18168407 Department of Statistic Malaysia (2021) at Understanding of Statistic Malaysia [2021] at https://doi.org/10.3393/ https://www.dorm.gov.mv/s1/index.php?r=column/cthemeByCat&cat=492&buil_id=z856/hvaWtoVmgwVkxXUG/gREII2109&menu_id=VkJIGK025bTk12EVT09yUW1RG412109 The Star newspaper [2020] dated 31 August 2020 at https://www.thestar.com.mv/opinion/atters/2020/0831/emails.uters/avsfore-workplace-safety Avr/org, H--R, Laylak, Safety Cutture in Malaysian Workplace: An Analysis of Occupational Accident. Health and Environment Tournal, 5(1), 23-24.3. Manoor, N, 2akatia, N, H, & Abduilab, Z. [2011]. Understanding Common Dimensions of Workplace Accident in Malaysia. Business Management Review, 1(6){2011} 22-33 Strzałkowski P (2019) Sinkhole formation hazard assessment. Environ Earth Sci 78. https://doi.org/10.1007/s1265-018-8002-5 Vexu, J. A., Ne, K., Tai, H. T., & Chow, M. M. (2020). A Review on Human Error in Malaysia Manufacturing Industries. Journal of Information System and Technology Management, 5 (19), 01-13.





ACCEPTANCE OF E-MENTAL HEALTH AMONG DIGITAL TALENT

Tan Choon Hong1(Exhibition & Researcher); Koo Ah-Choo1(FRGS Project Leader for Mental Wellness Research for Digital Talents) >>[Members are in alphabetical order: Chiang Weng-Onn (Alexius)², Elyna Amir Sharji¹, Hawa Rahmat¹, Siew Wei-Fern²] << ¹Multimedia University, ²International Medical University

As a result of the COVID-19 outbreak, many uncertainties have risen, causing stress and affecting the mental health of many individuals.

Study conducted during MCO in Malaysia shows that about half of the 1084 respondents were experiencing medium to high level of negative emotional states.

(Azuddin, 2020, A report on MCO and mental well-being by theentre.my)



E-Mental Health (EMH) makes use of information and communication technologies (ICT) to manage mental health, and consists of three domains: 1) Health in our hand; 2) Interacting for health; 3) Data enabling health. Understanding of users' perceptions towards EMH is a prerequisite for an effective implementation EMH, therefore this research examines the acceptance of EMH among the digital talents.

During MCO, close physical contact is prohibited, and travel is restricted which makes it difficult for patient to seek mental health care. Applications of EMH, such as Telehealth, can overcome these restrictions as it eliminates the need for travel and is cost effective. Despite the potential, there is still a lack of academic research on acceptance of EMH in Malaysia. Previous research shows that poor understanding of EMH has lead to low usage of EMH. This research intends to fill

This research surveyed 331 digital talents who are currently working in digital industries in Malaysia. Respondents were asked to answer questionnaire that included questions on demographic profiles, including gender, age group, education level and work experience. The key variables of this research were measured as follows:

- Acceptance of 'Health in our hand' (ACC-HIOH)
- Acceptance of 'Interacting for health' (ACC-IFH)
- Acceptance of 'Data enabling health' (ACC-DEH)
- Acceptance of 'E-Mental Health' (ACC-EMH)

Considering that the purposively selected respondents were digitally experienced talents, they seem to have high acceptance, similar to previous findings showing that frequent internet users are more willing to use the internet for mental health purposes. Acceptance of 'Health in our hand' (HIOH) was highest among the other eHealth domains.

In addition to COVID-19 preventive measures, the prevention of mental health problems is equally important, and EMH has also played an important role in providing mental health-related support during MCO as well. Nevertheless, it is predicted that social distancing measures coupled with awareness among policy and decision makers in the context of the pandemic will lead to significant attitudinal and ehavioural change and result in greater acceptance of EHM in the long term.

Acknowledgement:

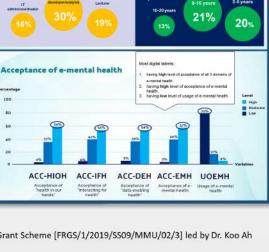
Grant Support - by MOHE FRGS Fundamental Research Grant Scheme [FRGS/1/2019/SS09/MMU/02/3] led by Dr. Koo Ah Choo

ACC-HIOH

Acceptance of "health in our hands"

100

80



The middle part of the overlap of three domains indicates the optimum point of

Health

Monitor, track, and inform health status Access and control of own health and fitness Mindfulnes;/Motivational mobile apps Wearable device such as smartwatch that can track stress level

Real time consultation Social disclosure/storytelling

30-34

25%

Community support Remote mentoring Self-help e-therapy/ therapy

EMH, which is most effective to promote mental wellness

A

.

56%

22%

29%

0.00 000 .

No.

Collect, store and communicate health related data Precise diagnostics for effective health services Collateral history, thought recorder that can help with mental health diagnostic/management.

Demographic

il.tell

Race

15%





AN EXAMINATION OF CRYPTOCURRENCY ADOPTION AMONG INVESTORS IN MALAYSIA

Shangeetha Sukumaran(GRA); Dr. Thai Siew Bee (Project Leader,MMU) & Dr. Shaista Wasuizzaman (member, UTB), Dr. Teh Boon Heng (member, MMU), Dr. Vasanthan A/L Subramaniam (member, UCSI)

INTRODUCTION

Cryptocurrency investment increase in popularity all over the world where some countries started accepting and regulating cryptocurrency. Malaysian generally are lagging as cryptocurrency adoption in general and adoption by investors is still in its infancy period.



PROBLEM

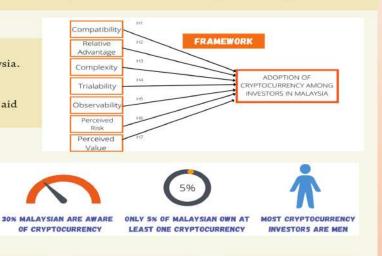
- The adoption rate of cryptocurrency and blockchain technology in Malaysia is considered low.
- The volatility of cryptocurrency is a concerning factor for all parties especially the government

OBJECTIVE

- To examine the adoption level of cryptocurrency among investors in Malaysia.
- To identify the factors that impact
- cryptocurrency adoption in Malaysia.To develop a framework for regulators to aid in the development of policies.

MOST MALAVSIAN SAVE

INSTEAD OF INVESTING



ANALYSIS

FACTS

40%

40% OF MALAYSIAN

RELY ON FIXED DEPOSIT





against inflation.

Cryptocurrency is able to hedge

Provide diversification benefits. Bitcoin is ideal for diversification since its returns are uncorrelated with those of most large assets.



NOVELTY

12

This research offers a clear understanding of cryptocurrency investment from a Malaysian perspective. Using diffusion of innovation theory to understand the adoption of the technology factor and motivation of the purchase using consumer behavior theory. \times

CONCLUSION

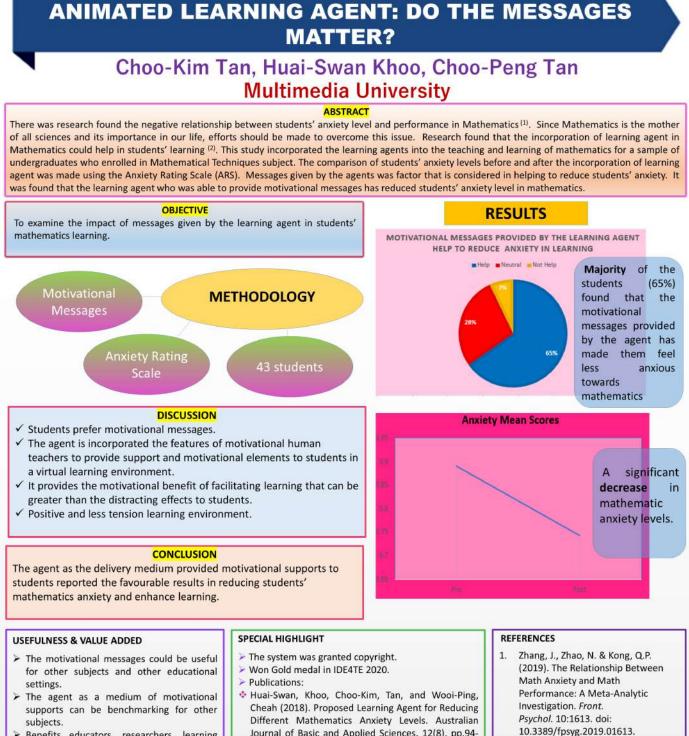
The findings of this study were also expected to provide insights into the influences of the various constructs on people's investment decision-making processes, which would help portfolio managers, and financial institutions interact with their clients.











- Benefits educators, researchers, learning institutions, and students. Mathematics performance in the nation will be improved with the reduction of no. of anxious students.
- Journal of Basic and Applied Sciences. 12(8). pp.94-97.
- 💠 Huai-Swan Khoo, Choo-Kim Tan, and Wooi-Ping Cheah. (2017). Proposed Pedagogical Agent for Reducing Mathematics Anxiety of Different Level. 3rd International Postgraduate Conference on Social Sciences and Business Research (IPCSSBR 2017). 5-6 December 2017. Langkawi, Malaysia.
- 2. Arguedas, M. & Daradoumis, T. (2021). Analysing the role of a pedagogical agent in psychological and cognitive preparatory activities. Journal of Computer Assisted Learning. p.1167-1180. doi.org/10.1111/jcal.12556





BIODIVERSITY, GREENERY, IN HOUSING DEVELOPMENT, AND SETTLEMENT **INTENTION: A PROPOSED FRAMEWORK**

Mr. Hew Wee Lim, Dr. Yeo Sook Fern, Assoc. Prof. Dr. Tan Cheng Ling, Mr. Alan Keh Wee Khang

Introduction

- 1. Biodiversity and greenery in housing is a concept that is increasingly common in developed countries.
- 2. In Malaysia, this concept has recently gained interest with eco-housing projects, mainly premium housing.

Research Problem

- 1. Based on the National Physical Plan, the majority of approved housing projects are located in urban centres with economic potential.
- 2. However, many of these projects still suffer from overhang.
 - Below RM300K 14 74% RM300K - RM500K
 - RM500K RM1M
 - RM1M and above
- 4. Urban housing have poor environment, which leads to poor attachment to the place.
- 5. Biodiversity and Greenery can make these locations more attractive to all potential residents.

Methodology

- 1. Target: Non-homeowner residents in the high overhang states (Johor, Penang, and Selangor)
- 2. Sample Size: 384

140

- 3. Sampling method: Purposive sampling
- 4. Data analysis: Partial Least Squares Structural equation modelling (PLS-SEM)

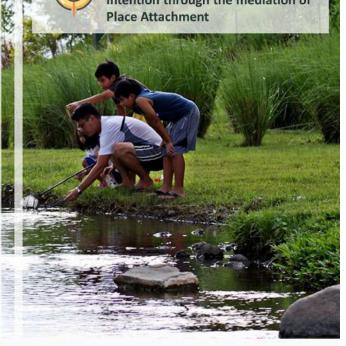
Acknowledgement

This project is supported by the Ministry of Higher Education Malaysia through the Fundamental Research Grant Scheme (FRGS) project ID: FRGS/1/2020/SS0/MMU/03/4.

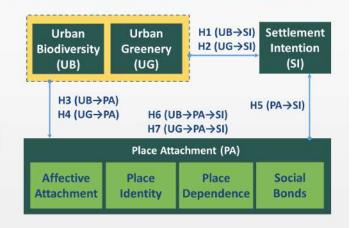


Objective of the Study

To assess the impacts of Biodiversity and Greenery on Settlement Intention through the mediation of **Place Attachment**



Proposed Framework







Determinants of Psychosocial Factors for Sustainable Green Volunteerism among Malaysian Youth

Dr Chong Chin Wei, Dr Adedapo Oluwaseyi, Dr Yuen Yee Yen & Tan Xin Yee Multimedia University, Cyberjaya Campus

Having rapid urbanization and industrialization, the global waste generation has mushroomed quicker than ever. Concurrently, environmental degradation has escalated, and public attention has been drawn to green volunteering as a means of combating climate change. Youth's climate awareness is critical because they are among the marginalized sectors of society that bear the brunt of disaster consequences.
However, they have been absent in climate actions and the reasons have yet to be adequately studied. Through this study, factors that drive HEI students to volunteer for environmental protection were studied. The outcomes help encourage youth to reach their full potential as green volunteers.

Introduction

- Environmental Issues including waste production, plastic crisis and over-urbanisation are complicated global problems felt on local scales and relates to many issues including economic growth, environmental degradation and poverty reduction.
- The accelerating deterioration of the natural environment has drawn public attention to green volunteering, actions made to reduce negative consequences. Green volunteering includes various activities such as environmental monitoring in wildlife, ecological restoration, and education. These activities usually rely heavily on volunteer participation (Lindsay, 2006), where they participate in vegetation cutting, habitat management, removing invasive species and fundraising. Uptake of such volunteering behaviors usually originated from the need to fulfil the personal desires of the volunteers (such as feeling needed and cultivating a sense of place) (Gooch, 2005).
- One of the population group that might face the impact would be the younger generation when the global climate change peaks. The generation was relatively absent in inducing climate change, yet they have to bear the consequences and their well-being will be severely affected. They are helpful but often underutilized or inactive in many community programs, particularly in green volunteerism. They are being seen as the critical role when it comes to environmental issues, and more efforts are needed to effectively engage them in environmental action (UN World Youth Report, 2003; Quiroz-Martinez et al., 2005).
- Henceforth, there is a need in studying youth participation in green volunteering and its' subsequent benefits, insights could be gained in creating endless possibilities of engaging youth in green volunteering, with that, we could sustainably promote and nurture youth participation to be active citizenship of this planet.
- This project examined the possible motivating factors that influence green volunteering participation in Malaysian youth by observing the trend of their participation in green volunteering under the influences of psychosocial factors.
- This project explored the intersection of 'youth' and 'green volunteering' via the Volunteers Function Inventory (VFI) and the Norm Activation Model (NAM). The VFI is widely utilized to examine the
 motivating factors of volunteering in different context but was seldom applied in green volunteering (Puckett, 2015). Contradictory, the NAM (Schwartz, 1977) is a vested model that explains altruistic and
 environmentally friendly behavior.
- This project aims to provide insights to curriculum and learning support that would be required to develop Malaysian graduates to a high level of personal well-being and enable them to contribute to the harmony and betterment of the society and nation community. By investigating the relationship between motivating factors and the green volunteering participation among Malaysian HEI students, this study aims to extend the current understanding of youth engagement in environmental volunteer actions.

Key Outcomes

- Case Studies:
- 50 young environmental activists were studied to understand their experiences, motivators and challenges in green volunteering.
- . Love towards nature and environmental knowledge were the primary reasons of youth started committing in green volunteerism.
- Focus Group Discussions:
- Local multi-stakeholders including representatives from government, universities, NGOs and young green volunteers were invited to discuss how and why HEI students participate in green volunteering.
 Young people volunteer for certain tangible outcomes, including academic progress, social connections, skill-learning. Convenience, time and cost are the main challenges that make youth hesitates when it comes to committing in volunteering.
- Questionnaire Survey
- A questionnaire was developed based on the Volunteer Functions Inventory, incorporating the revised Norm Activation Model.
- The results propose that learning a new skill, getting social engagement and care towards the natural environment significantly encourage the young generation to participate in green volunteering activities.
- Knowledge Transfer Programs
- Online sessions were conducted to spread the awareness towards climate issues and small pro-environmental behaviors that can be practiced in daily life.
 87% of the attendees indicated they've started practicing pro-environmental behaviors such as using energy-saving appliances, waste segregation and plant-based diet

Conclusions

- We report multiple evidence that young adults are committed to volunteering in the environmental context and could be moved further with support.
- Outcomes of this research were to aid multi-stakeholders to better attract and retain young people to volunteer and thus achieving their full potential in mitigating climate issues.

References

- Clary, E. G., Snyder, M., Ridge, R. D., Copeland, J., Stukas, A. A., Haugen, J., & Meine, P. (1998). Understanding and assessing the motivations of volunteers: A functional approach. Journal of Personality and Social Psychology, 74, 1516-1530.
- Gooch, M. (2005). "Voices of the Volunteers: An Exploration of the Experiences of Catchment Volunteers in Coastal Queensland, Australia." Local environment, vol. 10, no. 1, Feb. 2005, pp. 5–19, 10.1080/1354983042000309289. Accessed 1 Mar. 2020.
- Lindsay, L. (2006). Family Volunteering in Environmental Stewardship Initiatives (Pp. 1–24). Toronto. 2006, www.imaginecanada.ca/files/www/en/library/kdc-cdc/evergreen_family_volunteering.pdf.
 Puckett G N (2015). Exploring Youth Engagement in Environmental Volunteering: Endings from a Cross-Case Analysis. 2015.
- Puckett, G N. (2015). Exploring Youth Engagement in Environmental Volunteering: Findings from a Cross-Case Analysis. 2015, prism.ucalgary.ca/bitstream/handle/11023/2130/ucalgary_2015_Puckett_Grace.pdf?sequence=4&isAllowed=y.
- Quiroz-Martinez, J, et al. (2005). ReGeneration : Young People Shaping Environmental Justice. Oakland, Calif., Movement Strategy Center, 2005.
- Schwartz, S. H. (1977). Normative influences on altruism. Adv. Exp. Soc. Psychol. Vol 10, pp221-279.
- UN World Youth Report. (2003). Chapter 5: Youth and the Environment. United Nations. United Nations, 2003.



This research was funded by the Fundamental Research Grant Scheme [FRGS/1/2019/SSI09/MMU/02/2] Ministry of Higher Education Malaysia. The researchers sincerely thank all participants. This is a green-related project and part of the research outcomes have been published.





DEVELOPING A FRAMEWORK FOR IMPROVING CORPORATE VALUE AND EFFICIENCY IN MALAYSIA THROUGH EFFECTIVE ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) CRITERIA

Ms. Nur Shahira bt Shahrun, Dr. Suganthi Ramasamy, Dr. Yuen Yee Yen, Associate Professor Dr. Solarin Sakiru Adebola



ENVIRONMENTAL

Mainly focused on evaluating and mitigating risks that may result in environmental degradation (ex: avoiding pollution that contributes to climate change or utilizing animal experimentation).

Include safeguarding human rights, promoting equity, and managing relationships among workers, suppliers, and

SOCIAL

Priorities the fair

RESEARCH OBJECTIVE

consumers.

- To determine whether ESG criteria improves the corporate value of the firms listed 1. in Bursa Malavsia.
- To determine whether ESG criteria improves the corporate efficiency of the firms 2. listed in Bursa Malavsia.
- To determine whether ESG criteria improves the corporate performance of the 3. firms listed in Bursa Malaysia.
- 4. To determine whether leverage affects the corporate value, efficiency, and performance of the firms listed in Bursa Malaysia.
- 5. To determine whether board composition affects the corporate value, efficiency, and performance of the firms listed in Bursa Malaysia.
- To determine whether firm size affects the corporate value, efficiency and 6. performance of the firms listed in Bursa Malavsia.
- 7. To determine whether sales growth affects the corporate value, efficiency and performance of the firms listed in Bursa Malaysia.
- 8. To determine whether tax planning affects the corporate value, efficiency and performance of the firms listed in Bursa Malaysia.



GOVERNANCE

treatment of shareholders' rights, the disclosure of corporate information, and the avoidance of conflicts of interest in the selection of board members.

ABSTRACT

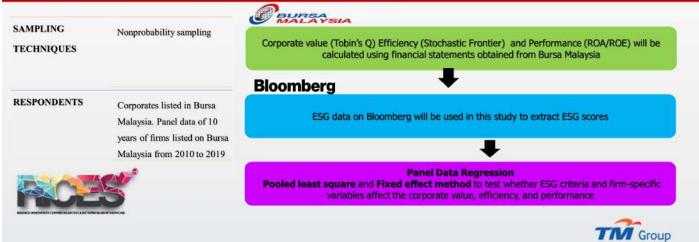
This thesis is to develop a framework for improving corporate value, efficiency, and performance in Malaysia through effective Environmental, Social, and Governance (ESG) criteria. Firms-specific factors such as leverage, board composition, firm size, sales growth, and tax planning will be included to strengthen the aim of this thesis. ESG data on Bloomberg will be used to extract ESG scores meanwhile corporate value (Tobin's Q), corporate Efficiency (Stochastic Frontier) and, corporate performance (ROA/ROE) will be calculated using financial statements obtained from Bursa Malaysia. Panel Data Regression (Pooled least square and Fixed effect method) will be used to test whether ESG criteria and firm-specific variables affect the corporate value, efficiency, and performance.

SIGNIFICANCE OF RESEARCH

- 1. Contribute useful information for the government to reduce the cost in the future and further implementation policies related to environmental, social, and governance sustainability.
- 2. Support the government, researchers and corporates in Malaysia to advance the practice of ESG criteria that involve all three criteria together to improve the corporate value, efficiency and performance.
- 3. Provide knowledges and awareness towards corporates in Malaysia and inspire them to implement the right and strategic ESG criteria.



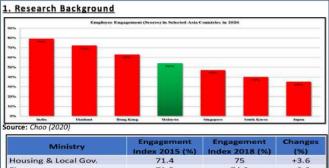
METHODOLOGY





Engagement Level Among Academics in Malaysian Private Higher **Educational Institutions**

Afandi Yusof, Al-Mansor Abu Said, Mohd Rizal Abdul Razak, Nor Fauziana Ibrahim, Maria Maiyus Faculty of Business, Multimedia University



Housing & Local Gov.	71.4	75	+3.6
Finance	71.2	74.2	+3.0
Rural Development	72.8	74	+1.2
Education	75.4	73.8	-1.6
Higher Education	Nil	69.9	Nil
Youth and Sport	72.1	73.7	+1.6
MINDEF	73.7	72.6	-1.1

Source: Public Service Department (2018)

Academics were constantly burdened with delivering lecture in class and increasing administration duties are in taxing condition especially in achieving their KPIs and balancing their core tasks (Muda & Kook, 2020).

Such concerns can be expected which lead to low engagement among academics (Abu Bakar & Zuriyati Mohamad, (2015); Noor Hassim Ismail & Arma Noor (2016); Tauhed et al. (2018). It shows that academics were expected to excel in every task that was given to them and if this

issue is not being addressed properly, it may lead to disengaged academics on their PHEI. It displays that academic were treated as "jack of all trades, but master of none".

2. Methodology

STRATA 1	STRATA2	STRATA3	STRAIA4	STRATA 5
SETARA 2017 Ratings	Number of Chosen PHEI and Percentage	Randomly Selected Faculties (Total)	Randomly Selected Academics per Faculty (Total)	Number of Final Respondents
6 Star (Outstanding)	2 (4.3%)	1 (2)	10 (20)	14
5 Star (Excellent)	11 (23.4%)	1 (11)	10 (110)	72
4 Star (Very Good)	21 (44,6%)	1 (21)	10 (210)	138
3 Star (Good)	12 (25.6%)	1 (12)	10 (120)	78
2 Star (Satisfactory)	1 (2.1%)	1 (1)	10 (10)	6
TOTAL	47 (100%)	47	470	308

STRATA 1 - A total of 47 out of 51 PHEI were extracted from SETARA 2017 exercise showing the results range etween 2 stars to 6 stars.

STRATA 2 - Compositions of PHEI based on each level were identified

STRATA 3 – Randomly selected 1 faculty per PHEI and a total of chosen faculties. STRATA 4 – Randomly selected 10 academics per faculty and a total of chosen academics were identified. STRATA 5 - Numbers of actual respondents participated in the research study. 65.5% response rate of the total espondents were collected



Level	Frequency (n)	Percentage (%)	м	SD
Em	ployee Engagem	ient	4.24	.471
Low (1.00 – 2.33)	0	0		
Medium (2.33 – 3.67)	39	12.4		
High (3.67 – 5.00)	269	87.5		

Note:

Data was collected and analysed in April 2020.

It was the 1st Movement Control Order (MCO) that is implemented by the government of Malaysia to prevent Covid-19 pandemic.

5. Discussion

- PHEI has the utmost responsibility to provide a bigger meaning to its academics in transforming the society and the future of the country.
- Through recruitment and selection process, whereby the candidates who are applying for the job are solely looking for an increase of salary, job position, titles OR they would like to transform the future of the country.
- The KPI weightage of each target that is assigned to academics should be based on the academic's strength so that they can enhance their capabilities to achieve the target that has been assigned. At the same time, PHEIs could achieve all target as the weightage for each criterion is being segregated according to the academic's strengths.

Groups / Duties	Teaching	Research	Supervision	Admin Task	Marketing Activities	Total
Group 1 (Teaching)	50%	20%	10%	10%	10%	100%
Group 2 (Research)	10%	50%	20%	10%	10%	100%
Group 3 (Supervision)	20%	10%	50%	10%	10%	100%
Group 4 (Admin)	10%	10%	10%	50%	20%	100%
Group 5 (Promotion)	10%	10%	10%	20%	50%	100%
Total target output for PHEIS	100%	100%	100%	100%	100%	

Note:

Newly designed KPIs based on academic strengths

6. References

- Abu Bakar, J., & Zuriyati Mohamad, Z. (2015). Factors affecting female lecturer retention in private higher institution in Perak. International Journal of Academic Research in Business and Social Sciences, 5(1), 2222– 6990. https://doi.org/10.6007/JIJ.RRSS/v5-11/1410
- Retrieved Choo, S. (2020). 2020 Global Employee Experie https://www.gualtrics.com/au/ip/ebook/2020-global-employee-experie Experience Trends. from https://www.qualtrics.com/au/ip/ebook/2020-global-employee-experience-trends/3utm_medium=ebook&utm_source=content&utm_campaign=2020-01--apj--my--ebook--ex--2020-
- malaysia-trends&utm_content=ebook--ex--2020-maylasia-trends
- Muda, A. L., & Fook, C. Y. (2020). Psychological empowerment and organisational commitment among academic staff of public universities in Malaysia. Asian Journal of University Education, 16(2), 26–35. https://doi.org/10.24191/AJUE.V16I2.10292
- Noor Hassim Ismail, & Arma Noor. (2016). Occupational stress and its associated factors among academician in a research university, Malaysia. Malaysian Journal of Public Health Medicine, 16(1), 81–91. Public Service Department. (2018). Laporan Indeks Keterlibatan Penjawat Awam Perkhidmatan Awam
- Persekutuan Tauhed, S. Z., Rasdi, R. M., Samah, B. A., & Ibrahim, R. (2018). The influence of organizational factors on work engagement among academics at Malaysian research universities. International Journal of in Business and Social Sciences, 8(10), 973–988. https://doi.org/10.6007/ijarbss/v8-110/4793 rnal of Academic Research





ENHANCING LEGAL PROTECTION OF STRAY ANIMALS WELFARE THROUGH SOCIETY INTERVENTION

Asmida Ahmad (Project Leader) Nur Fazini Asro Bt. Ramzi Sulaiman (Project Member) Putri Syaidatul Akma Bt. Mohd. Adzmi (Project Member) Amir Nur Ikhwan bin Amernudin (Project Member)

MULTIMEDIA UNIVERSITY MALAYSIA (MMU)



animals can be seen as a nuisance and threatening public health through the spread of diseases and the environment concern has made the protection and welfare of the strays refuse or denied. This has led to the stray animals experienced poorer welfare themselves through a lack of resources, such as shelter, food and water and exposure to cruelty.



Research Objectives

To evaluate and enhance the protection of the welfare of stray animals from cruelty and/or abused through legal measures and guidelines.



Research Methodology

This study utilizes doctrinal and non-doctrinal legal research techniques. The current and existing legislation referred to: (Malaysia: Animals Act 1953 and The current and existing Animal Welfare Act 2015), and (International Standards and Guidelines: Office for Epizootics (OIE) and Universal Declaration of Animal Welfare (UDAW).

UU **Findings and Recommendation**



Making the laws as ultimatum autonomy

Run a regular and awareness nationwide campaign to society to help and recognize independent animal shelters and rescuers and to encourage public donation to these parties



Allocate resources and funding for stray animal protection and welfare



Local councils must allow or encourage feeders to place dedicated feeding trays at specific spots.

Publication

(Paper presented at 5th Asia International Multidisciplinary Conference 2021 on 09th-10th April 2021)

Estudios de Economia Aplicada (Scopus Journal Q3)

More concrete suggestions and recommendations are needed to strengthen the laws and guidelines as well as rational strategies can be implemented to improve the understanding of human-animal relationships in Malaysia. Future research to obtain more information and improvement are also required to determine the importance and value of co existence between the welfare of both stray animals and the communities.



Anisimov, A. & Ryzhenkov, A. (2019). Is it possible to change the destiny of stray imals by legal means7: . . International journal of Legal Discourse, 4(2), 143-166. tps://doi.org/10.1515/jid-2019-2020 Bowman, M. (1988). The Protection of Animals under International Law. 4 necticus (Journal of International Law, 487 - 489. Bracke, M.B.M., Vermeer, H.M. & van Emous, R.A. (2019). Animal welfare regulations of practices in 7 (potential) trade-agreement partners of the EU with a focus on laying ns, brollers and pig: Mexico, Chile, Indonesia, Australia, New Zealand, Turkey and practices in 7 (potential) trade-agreement partners of the EU with a focus on laying ns, brollers and pig: Mexico, Chile, Indonesia, Australia, New Zealand, Turkey and O. https://biolog/10.1017/4/074977 Accessed: 6.1.2021. The Animal Velfare Act 2015 WSAVA Animal Welfare Rouidelines (2018) Accessed: 12.2.2021 WSPA, Universal Declaration on Animal Welfare Verid Society for the Protection of imals http://www.wspa-international.org/wspaswork/udaw/Default.aspx Accessed .32021.







EXPLORING THE PSYCHOLOGICAL PROFILE OF INDIVIDUALS VULNERABLE TO FAKE NEWS

Umi Naqiyah Ahmat Puat (MMU), Dr. Hawa Rahmat (MMU), Dr. Hazlina Mohd Miskam (UKM), Dr. Azlina Mohd Khir (UPM), Dr. Rohaidah Mashudi (MMU), Nalini Pragasam (MMU), Dr. Kogilavani A/P Rajendran (PDRM), Fatimah Rahmat (Politeknik

FAKE NEWS

Bakir and McStay (2018) claimed that fake news is socially and politically unacceptable because it produces a citizenry that is misinformed because of the impact of echo chambers. The effect of fake news has a pervasive influence on political activities, such as on election results, industry and moral of the society.

METHOD

Mixed method

• Primary Data = As the primary source of quantitative data collected through the questionnaire. Convenience sampling will be used as the researchers will post online surveys through social media such as Facebook, Twitter, and Instagram. There will be three section in the set of questionnaire, Section A, B, and C; demographic variables (such as occupation type, socio-economic status, education, etc.), Cognitive Style Inventory Scale (Martin, 1998), and awareness on fake news, respectively. Researcher will develop a questionnaire on awareness of the society towards fake news. The questions are developed based on literature review. A descriptive statistic that will be used are the measures of central tendency, percentile, Spearman Correlation and Mann-Whitney test.

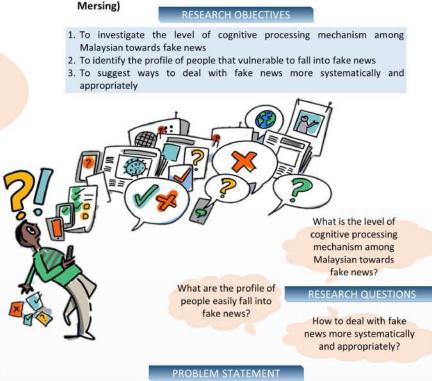
• Secondary data = As supporting data from qualitative data collected through interviews, observations and documents.



A Malaysian profile of people fall into fake news

Anti-Fake News 2018 (Act 803) was abolished due to several weaknesses in its content and implementation. Therefore, the outcome of this study may give a new knowledge and idea if a new fake news act to be designed and implemented in the future. It add a new value and could be used as a guideline for new fake news (if any) to be implemented in our country and simultaneously could educate the public to be more critical and rational in their thinking and action.





The increasing prominence in the public domain and the scale on which fake news can spread through modern technology, the phenomenon of false information and its influence on attitude formation has become highly relevant. Moreover, the current situation in which fake news about corona virus deaths is spreading is alarming among our society (MCMC report, 2020). This is because of the attitude of those who are irresponsible triggers panic and worries among those who do not have reliable sources of this virus information, can easily believe it. They share this fake news on other social sites such as WhatsApp group of friends, family, community and more. A rational person should be able to identify their legitimacy by visiting more accurate information such as the Ministry of Health Malaysia's website or the Ministry of Health Malaysia's FB page. The current research will be studying the underlying factor that governs people's minds and action to naively fall into fake news. Briefly, the study is meant to explore the psychological profile of individuals vulnerable to fake news. By identifying which people are most vulnerable to the lingering effects of false information, the present study provides an important basis to further advance our understanding of the impact of fake news and incorrect information on high-profile contemporary events, such as elections, health, the morale of society or legal trials. In turn, the profiles of vulnerable Malaysians are expected to direct the future strategy of the government to monitor the spread of fake news among society.

REFERENCES

Bakir, V., & McStay, A. (2018). Fake news and the economy of emotions: Problems, causes, solutions. Digital journalism, 6(2), 154- 175.

Kai Shu, Suhang Wang and Huan Liu (2018) Exploiting Tri-Relationship for Fake News Detection. Computer Science and Engineering, Arizona State University, Tempe, 85281, USA Copyright c 2018, Association for the Advancement of Artificial Intelligence (www.aa ai.org).

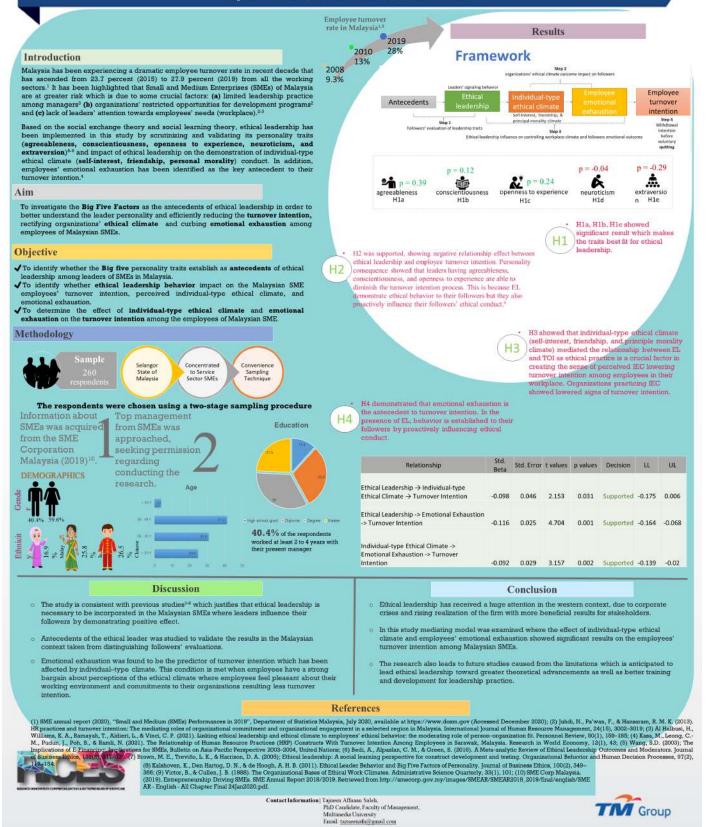
Zhou, X., Zafarani, R., Shu, K., & Liu, H. (2019, January). Fake news: Fundamental theories, detection strategies and challenges. In Proceedings of the Twelfth ACM International Conference on Web Search and Data Mining (pp. 836-837).

ACKNOWLEDGEMENT: This study is sponsored by Fundamental Research Grant Scheme (FRGS) offered by the Minister of High Education Malaysia (MOHE) 2020





EXPLORING THE ROLE OF ETHICAL LEADERSHIP ON EMPLOYEES' TURNOVER INTENTION: Do organizations' ethical climate and employees' emotional exhaustion play a role? Tajneen A. Saleh, Abdullah Sarwar, Nasreen Khan





FACTORS INFLUENCING THE EFFECTIVENESS OF PETROL SUBSIDY PROGRAM IN MALAYSIA

Ms. Lai Jing Wen, Dr. Yuen Yee Yen, Dr. Wendy Teoh Ming Yen, Dr. Suganthi Ramasamy

INTRODUCTION

The Malaysian government is currently creating awareness and preparing the public for the implementation of the national Petrol Subsidy Program to ensure that petrol subsidy is given only to the deserving B40 and M40 groups.

RESEARCH FRAMEWORK

Petrol Subsidy				
Economic:	Unintended effects	Environment:		
1.Fiscal and macroeconomic impact 2.Floated petrol price 3.Political economy of petrol subsidies 4.Burden on government budget 5.Petrol shortages	1.Inequality household welfare 2.Crowd Out funds for public spending, including infrastructure, education, and health services 3.Limiting the number of goods subsidized 4.Limited the targeted subsidy population	1.Environmental consequences of petrol subsidies 2.Energy subsidy and environmental quality 3.Damaging public health by increasing air pollution 4.Create barriers to clean energy efficiency investments		

PILOT STUDY AND RESULTS

In this research, the researcher will distribute 60 sets of questionnaires to peer and relatives which has experienced the Petrol Subsidy Program for comments and validation.

Variables	Number of Items	Cronbach Alpha
Fiscal and macroeconomic impact	5	0.766
Floated petrol price	5	0.769
Political economy of petrol subsidies	5	0.486
Burden on government budget	5	0.803
Petrol shortages	5	0.706
Inequality household welfare	5	0.595
Crowd Out funds for public spending, including	5	0.557
infrastructure, education and health services		
Limiting the number of good subsidized	5	0.672
Limited the targeted subsidy population	5	0.679
Environmental consequences of petrol subsidies	5	0.822
Energy subsidy and environmental quality	5	0.447
Damaging public health by increasing air pollution	5	0.857
Create barriers to clean energy efficiency investments	5	0.783
Petrol Subsidy Program in Malaysia	5	0.580

DATA ANALYSIS METHOD

There will be a software namely Statistical Software Package for Social Science (SPSS) will conduct this study.

DISCUSSION 1. Economic

1.1 Fiscal and macroeconomic impact

According to Bao and Sawdon (2011), rising energy consumption, rising energy prices, and import dependence related to petrol price fluctuations cause petrol subsidies to collapse every time and become the most important public financial resource.

1.2 Floated Petrol Price

When the petrol subsidy is implemented, there will be a floated petrol price. During this case, it will reduce leakages and cross-border smuggling of subsidies petrol which has cost the government deficits amounting to a lot of ringgits (Bernama, 2019).



DISCUSSION

1.3 Political Economy of Petrol Subsidies

According to researcher Scoones et al., (2015), they found that the reform of the subsidy system has also addressed the deeper political aspect of the transition to sustainable development.

1.4 Burden on government budget

The transition of the petrol subsidy system from low prices to market-based pricing will impose additional burdens on the production costs of producers and greatly affect the added value of productivity and the national economy (Ying & Harun, 2019b).

1.5 Petrol shortages

According to researcher Victor (2009), by artificially increasing petrol subsidy demand, consumption subsidies result in both a rise in imports and a decrease in exports.

2. Social

2.1 Inequality household welfare

Based on Del Granado, Coady, and Gillingham's (2012) research, they expected that, on average, the top income quintile receives six times more subsidies than the lowest quintile.

2.2 Crowd Out funds for public spending, including infrastructure, education, and health services

According to Joevas (2020), consumers enjoy low petrol prices and history has consistently shown that raise in such prices can cause protests and revolution.

2.3 Limiting the number of goods subsidized

According to Bacon and Kojima (2006), it can result in unwanted effects. To avoid indirect effects on trucking costs that will hit the rural poor hardest the ways is to delays in reducing the subsidy on petrol.

2.4 Limited the targeted subsidy population

Based on the researcher Clements et al. (2013), limiting the number of targeted subsidy population is very appealing because it can rely on existing institutional arrangements while adding a targeting division.

3. Environment

3.1 Environmental consequences of petrol subsidies

Merrill (2015) found that research on the link between petrol subsidies and environmental quality is rooted in the three effects of these subsidies on climate change.

3.2 Energy subsidy and environmental quality

According to researcher Riyakad and Chiarakorn (2015), they had studied the impact of energy consumption on greenhouse gas emissions and found that the energy consumption used in the production process will generate greenhouse gas emissions.

3.3 Damaging public health by increasing air pollution

According to researcher Arvind & Gary (2021), they have already witnessed the catastrophic effects of climate change, increased heat waves, extreme rainfall and drought.

3.4 Create barriers to clean energy efficiency investments

According to the researcher Lourdes, Peter & Ronja (2020), the reallocation of savings from the reform of subsidies to alternative energy sources and energy efficiency will help accelerate the phase-out of petrol by future.



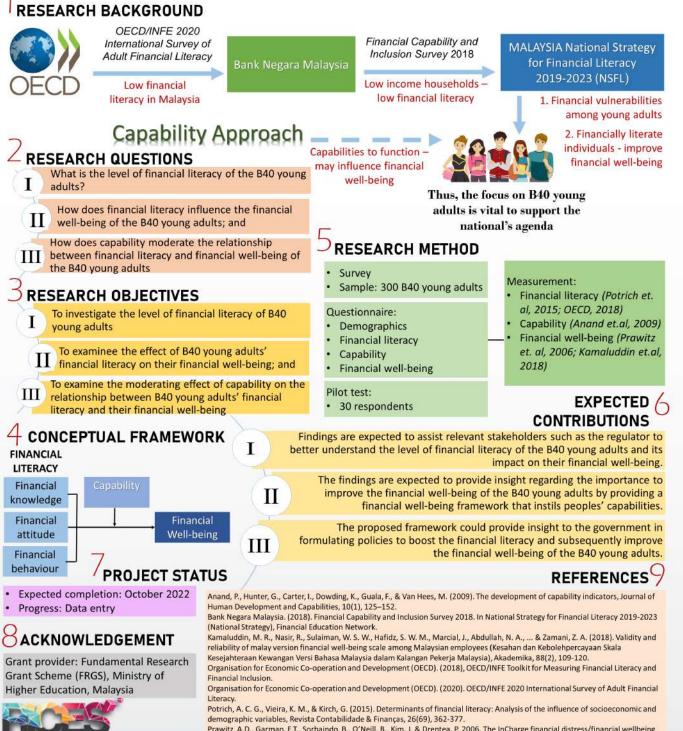






Project Leader: Assoc. Prof. Dr Nahariah Jaffar (MMU)

Project Members: Dr Sellywati Mohd Faizal (MMU), Zarehan Selamat (MMU), Dr Izyan Syazana Awaludin (MMU) & Dr Noor Adwa Sulaiman (UM)



Prawitz, A.D., Garman, E.T., Sorhaindo, B., O'Neill, B., Kim, J. & Drentea, P. 2006. The InCharge financial distress/financial wellbeing scale: Development, administration, and score interpretation, Financial Counseling and Planning, 17(1), 34-50.







PROJECT LEADER: TAY ENG SIANG, FACULTY OF LAW, MULTIMEDIA UNIVERSITY MEMBERS: ASSOCIATE PROFESSOR DR. KHONG WYE KEEN, FOL, MMU, DR. CHEONG MAY FONG, THOMAS MORE LAW SCHOOL, AUSTRALIAN CATHOLIC UNIVERSITY & MR. YONG KAI JIE, FOL, MMU

- Introduction Attempts are currently been made to create machine-readable smart contracts which are self-enforcing computers with minimal human intervention.
- Research Objective 1. To develop a legal framework to govern the performance, enforcement and dispute resolution of machine-readable smart contracts. 2. To develop a legal framework to govern the drafting of machine-readable smart contracts.
- **Methodology** Qualitative doctrinal research method and structured interview on targeted participants which include lawyers, legal technologists and other relevant parties.

Results / Discussion

Research Objective 1:

Proposal 1: Adoption of Article 12 of 2005 United Nations Convention on the Use of Electronic Communications in International Contracts; *Proposal 2*: Imposing "Know-Your-Customer" Rule; *Proposal 3*: Convening Regulatory Sandbox for "in-situ" Blockchain-based Stamp Duty; Proposal 4: Recognising Smart Contracts as Trusted Software Intermediaries.

Research Objective 2:

Proposal 1: Redefining "In Writing" Typology; Proposal 2: Adopt "Wait-and-See" Approach on Machine-Readable Smart Contract.

• **Conclusion** The recommended areas for further research are: (i) the injustice caused by automated software performance; and (ii) the development of a blockchain-based dispute resolution system.

Conference papers

- Yong, K. J., Tay, E. S., Khong, Dennis W. K. & Cheong, M. F. (2020, June 20). Blockchain smart contracts: Experience of the blockchain industry in Malaysia. 21st Kuala Lumpur International Business, Economics and Law Conference (KLiBEL 2020), Bangi.
- 2. Yong K. J., Khong, Dennis W. K., & Cheong, M. F. (2018, September 4). Smart 'contracts' are a misnomer: Challenges in the contracting lifecycle in the real world. International Law Conference 2018 (i-NLAC 2018), Kuala Lumpur.
- Human Capital Development A forth year PhD (Laws) Student actively working towards completion of his thesis. Candidate name: Yong Kai Jie.
- Awards Best Paper Award (Law Category). Awarded by the Organiser of the 21st Kuala Lumpur International Business, Economics and Law Conference 2020 on the 20 June 2020.
- Others Invited to speak at Computational Law and Blockchain Festival at the Singapore Academy of Law on 25 May 2019. Presentation topic: Keeping Ahead of the Tide: What can Lawyers Do in Blockchain Smart Contracts Industry?
- Commercialization Potential The potential to publish textbook related to smart contracts and advisory services on the relevant subject matter.
- Acknowledgement We would like to thank sponsorship granted by the Ministry of Higher Education Fundamental Research Grant Scheme (FRGS/1/2017/SSI10/MMU/02/1) and Yayasan University Multimedia Perdana Cyberlaw PhD Scholarship.



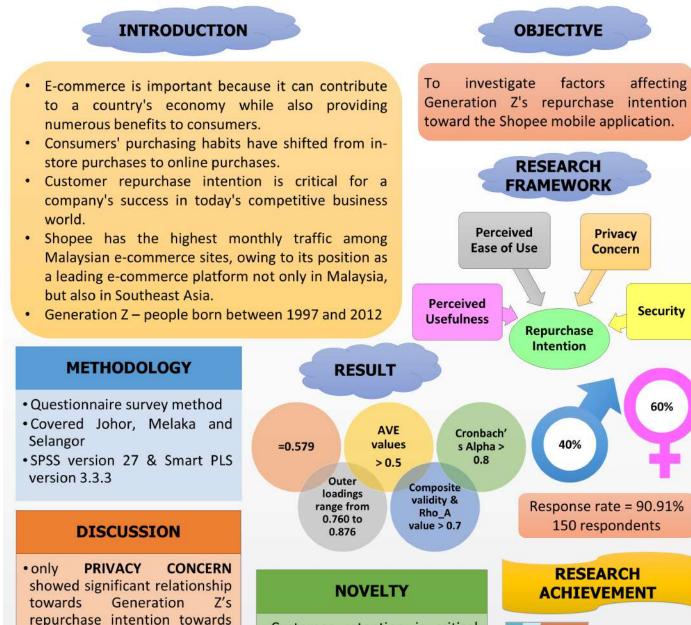




Shopee mobile application.

GENERATION Z SHOPPERS REPURCHASE INTENTION TOWARDS SHOPEE MOBILE APPLICATION

Lim Kah Boon¹, Yeo Sook Fern², Yeo Qiao Xin³, Tan Cheng Ling⁴ ^{1,2,3}Faculty of Business, Multimedia University, Malaysia ⁴Graduate School of Business, Universiti Sains Malaysia, Malaysia



• Customer retention is critical for an online e-commerce platform like Shopee because loyal customers are critical to the e-commerce.

BRONZE

AWARD

BLM2-ICAM4 INTERNATIONAL

CONFERENCE

Group

BLM2-ICAM4

BRONZE AWARD

17



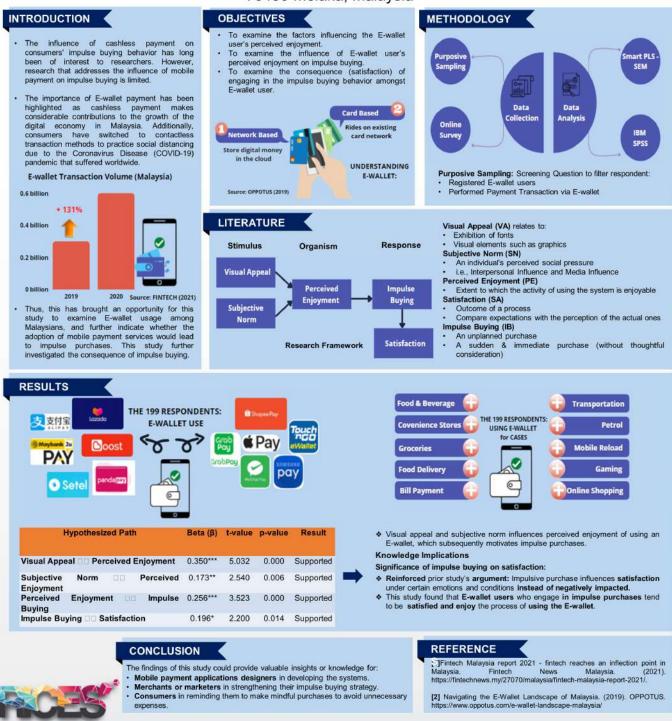
IMPULSE BUYING'S ANTECEDENT AND CONSEQUENCE: MALAYSIAN E-WALLET USERS PERCEPTIONS

Lee Yi Yong, Dr. Gan Chin Lay, Dr. Liew Tze Wei

Faculty of Business, Multimedia University,

.

75450 Melaka, Malaysia









Instilling Entrepreneurial Mindset Towards University Students by Using The Hustler Board Game

Mr. Vincent (L), Ting Che Siang, Oon An Chie, Leong Sie Ying, Tin Cu Kang & Tee Khai Cher

ARE Malaysian graduates ready to face challenges at the workplace? Are they innovative and equipped with communication and problem-solving skills?

>290.000 graduate annually, but 1 in 5 fresh graduates remain unemployed 6 months after grad

students

3.2% of the total 5.29 nillion graduates in 2019 were unemployed DO \$M, 2019

Value Proposition A board game that will instill

players with entrepreneurial

mindset

Entrepreneurial mindset is

important to create future-

ready employees than any

specific technical or soft skill

The Board game is made

of Sugarcane Bagasse. If he board game is worn off

or spoilt it can be use as a

natural fertiliser

THE MUSTLER

set

Many fresh graduates are stunningly ill-prepared for the workforce, without realising it



About The Hustler

- A cycle of business idea generation.
- Players will learn to think critically & innovatively, work in groups, and many more.
 - They will go through challenges, gaining market insights and validation of their business.
 - At the end players will develop a minimum viable idea & gaining entrepreneurial mindset.

- The board game will be part of the main tool in our training session. Participants will go through a series of upskilling modules and Design thinking process.

An experiment has been conducted to test the concept of the board game. We had been practicing the concept for almost 1 year to proof the impact of the game. Through The Changemaker Academy, which they play a role of a catalyst to expose to students more on business idea competitions, we manage to develop many students that has the characteristics of Entrepreneurial Mindset (EM). Although the board game is not completed, we experimented using the action cards provided in the board game. Participants will play it and at the end gain the minimum viable idea. That idea later will be groom to be use in competitions. And this is where they are expose to more on EM and corporate/industry.



3rd place in IBIC 2020. All the talents from TCA got jobs less than 3 months after they grad. Some of them started their own start-ups.



KNOWLEDGE, BARRIERS AND INTENTION ON SCREENING AND VACCINATION AGAINST CERVICAL CANCER : A STUDY AMONG WOMEN IN MALAYSIA

Palpunavam Prisha, Khong Sin Tan, Chin Poo Lee

WHAT ARE THE POSSIBLE FACTORS THAT INFLUENCE WOMAN'S INTENTION TO UPTAKE HPV SCREENING AND VACCINATION?

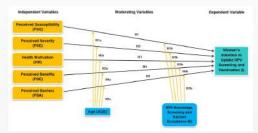
This study aims to identify possible barriers, estimate women's knowledge on HPV, cervical cancer, screening and vaccination, assess factors of age and knowledge on women's intention and develop an informative eHealth intervention. This application allows user to easily access medical advice, efficiently keep track of HPV related appointments or vaccination schedule, easily locate clinics or hospital, be reminded on time for medication, get healthy diet suggestions on daily basis and track period or pregnancy timeline.

INTRODUCTION

Cervical cancer has been classified as the third most common cancer in Malaysia caused by human papillomavirus (HPV), recording 115,238 cases throughout 2012 to 2016. HPV16 and HPV18 genotypes are more prevalent among Malaysian women and it is preventable if the pre-cancerous cells were identified early via screening tests such as Pap smear and HPV DNA. Prophylactic HPV vaccines are proven effective in clinical trials and acts as a viable prevention strategy against cervical cancer, also included as a part of national immunisation plan to vaccinate 13 years old girls for free. Despite the prevention efforts taken, various barriers such as low awareness level, parental or partner preferences, negative perceptions and other deep-seated social stigmas still exist among women that hinder the uptake rate of HPV immunisation.

METHODS

PROPOSED HEALTH BELIEF MODEL



STUDY DESIGN AND SAMPLES













RESULT

This study had randomly gathered feedbacks in mid of February to April 2021 among 40 convenience samples using Google Forms. The selected target respondents were female aged 15 years and above coming from different states around Malaysia comprising diversified socio-demographical background.



CONCLUSION

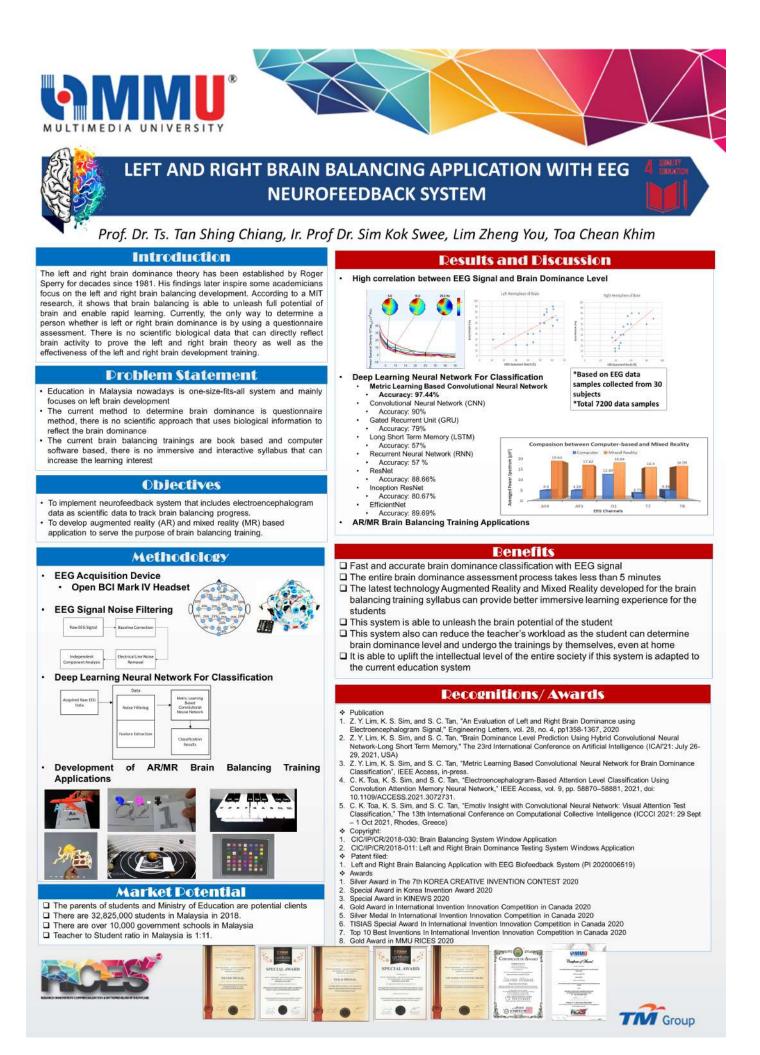
The uptake rate of HPV immunisation solutions are still at optimal level in Malaysia. There are other dilemmas still exist to date among women in which this study will recognise. An intervention (Cervica) will be introduced to encourage behavioural changes to uptake the suggested preventive measure for cervical cancer. This study is approved by Faculty of Information, Science and Technology (FIST), Multimedia University (MMU) Melaka, fulfilled under Yayasan Muhibah Tan Sri Fng Ah Seng.

REFERENCES

1. Ministry of Health Malaysia. Malaysia National Cancer Registry Report (MNCR) (2012-2016). Retrieved June 16, 2020, from: https://drive.google.com/file/d/1BuPWrb05N2Jez6sEP8VM5r6JtJtIPN5W/view .

 Buang, S. N., Ja'afar, S., Pathmanathan, I., & Saint, V. (2018). Human papillomavirus immunisation of adolescent girls: improving coverage through multisectoral collaboration in Malaysia. BMJ, 363.







LEGISLATIVE APPROACH IN MANAGING ENVIRONMENT POLLUTION BY ALIEN FISH SPECIES IN MALAYSIA

Asmida Ahmad (Project Leader) Nur Fazini Asro Bt. Ramzi Sulaiman (Project Member) Nadia Bt. Abu Hasan (Project Member) MULTIMEDIA UNIVERSITY MALAYSIA (MMU)

INTRODUCTION & PROBLEM STATEMENT

The first edition of 'Invasive Alien Species in Malaysia 2018' facts sheets have listed down that overall of 46 invasive alien species from a total 130 species alien species that have already been present and spread in Malaysia.

The risk to our water pollution had threatened the native fishes that may lead to extinction and changed our common environment altogether.

Due to the ambiguity of the law, it has affected the coordination in the enforcement between the Federal and State government in reference to Fisheries Act 1985 and Local Government Act 1976.

RESEARCH OBJECTIVES

To examine, review, update and a possible proposal of amendment of the current and existing laws and/or policy so as in its enforcement.

RESEARCH METHODOLOGY

This research adopted legal doctrinal and non doctrinal methods by analyzing the current and existing law(s) and/or policy (if any) respectively in Malaysia.



PLANNING AND RECOMMENDATION



Clear interpretation of law and/or regulation

Ambiguity in Section 40 of the Fisheries Act 1985 and Section 69 of the Local Government Act 1976: A much clearer interpretation or another sub proviso is needed for the right authority on the enforcement.



Ongoing monitoring and detection program

An effective management strategies of fisheries alien species is needed to cover three main issues: prevention; containment and eradication; and control.



Coordination on river management at all levels

Clear flow in managing the administrative duty between the Federal, state and local government.



Learning, Awareness

Education and

To stop fish farming of alien fish; to totally ban the import of all alien fish species through enforcing the law in dealing with those found to be importing, selling and keeping alien fish, and through public out-reach programs.

FUTURE SUGGESTION FOR RESEARCH

The information that emerges from this research will be a "door opener" to more impacted and detailed studies related on ways the issue of protection the rivers and environment from the alien fish species or relevant aqua-organism invasion can be tackled.



K. Ahmad, M.N.R. Nur-Hazwari, Sharfah Asyah Syed Omar, E.R. Aweng and Abdulai Taweel. (20): Preliminary Study on Invasive Fisis Species Diffusion in Selected Malaysian Freshwater osystemis Relativa Journal of Billogical Sciences. National Action Filan On Invasive Alen Species 2021-2025. (2021). Jabatan Perlamian. IBBN 448/3-041-274-4 Celahan Pertama. National Committee on Invasive Alen Species Malaysia. (2018). Invasive allen species in Invaria.

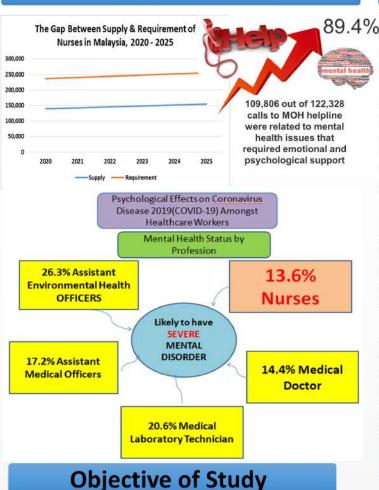
Estudios de Economis Aplicada (Scopus Journal Q3)
 Pager reserted at 5th Asla International Multidisciplinary Conference 2021 on 09th
2021





MALAYSIA PUBLIC HEALTHCARE PSYCHOLOGICAL WORK ENVIROMENT TOWARDS BETTER EMPLOYEE PYSCHOLOGICAL WELL-BEING & MENTAL HEALTH

Chin Yong Quan, Cheah Yeh Ying, Dr. Cheah Chew Sze, Dr. Gan Chin Lay, Afandi bin Yusof



Current Issues

The present study will develop and validate a conceptual model for investigating the predictors of health care worker's psychosocial work environment, psychological wellbeing, mental health and its impact on patient outcomes in Malaysia's public sector healthcare.

It is hoped that this study will provide a better understanding of health care worker psychosocial work environment, psychological wellbeing, mental health and patient outcomes.



Acknowledgements: This work was supported by Ministry of Higher Education Malaysia under the Fundamental Research Grant Scheme (FRGS/1/2019/SKK06/MMU/03/02)

Introduction

89.4%^{The} various stressors faced by health care workers worldwide in their personal and professional work are currently compounded by unprecedented challenges due to the COVID-19 pandemic.

COVID-19 pandemic have affected frontliners' mental health, leading anxiety, insomnia, depression or distress (New Straits Times, 2020). This situation is further compounded by the the fact that Malaysia has a shortage of nurses and doctors (Yusof, 2019).

Nurses face different various of problem, including high workloads, increasing mortality of the infected, inadequate individual protective equipment, occupational burnout, anxiety, of spreading to relatives and families (International Council of Nurses, 2021).

Frontliners faced with burnout and stress during the Covid-19 pandemic, turned to the psycho-social helpline, which is a joint collaboration with Mercy Malaysia (Daim & Yusof 2021). Health Minister Khairy Jamaluddin said, 17,736 (7.9 %) out of 223,990 calls to the helpline were made by frontliners

Methodology

This study focused on nurses working at government hospitals in Peninsular Malaysia as the source of data collection as government hospitals are the primary source of health care for most Malaysians.

Conclusion & the Way Forward

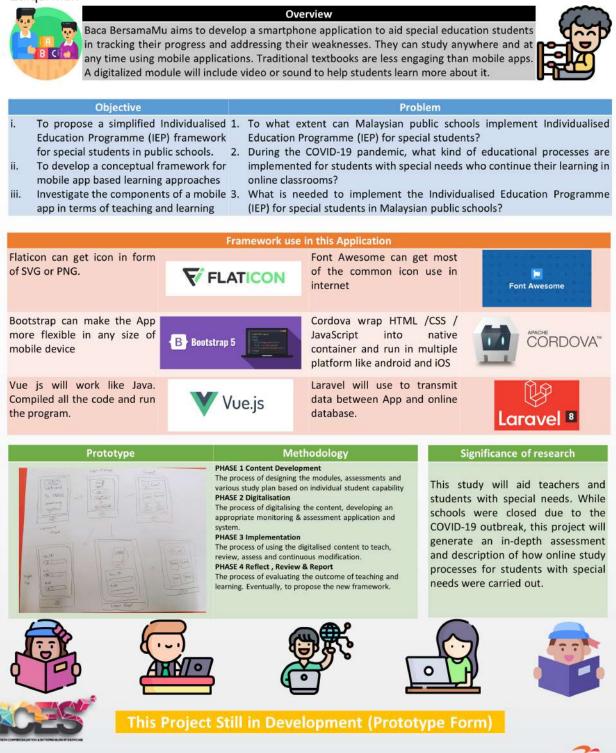
Understanding the linkages between psychosocial work environment, psychological wellbeing and mental health of health care workers is now more important than ever as it all leads to the quality of health care provide and patient safety outcomes.







Lee Jia Hong, Dr Hawa Binti Rahmat, Dr Neo Han Foon, Ms Nalini Pragasam, Cikgu Mohd Zulqarnian



TM Group





Dr Sellywati Mohd Faizal (Project Leader); Assoc. Prof Dr Nahariah Jaffar (Member); Dr Azleen Shabrina Mohd Nor (Member)

INTRODUCTION AND OBJECTIVE	Automation (Hart, 2017). Notwithstanding, the impact of digital technologies can be embraced by accounting profession by upskilling and reskilling						
METHODOLOGY	 Research Design This study uses questionnaire to obtain respondents' opinion and information on the issue of this study. Sample and Population The respondents are selected among accounting profession registered with the Malaysian Institute of Accountants (MIA). Accounting profession comprises of accountants, auditors, advisors, tax expects and any accounting related job. Research instrument 1. UTAUT constructs adopted from Venkatesh, Morris, Davis & Davis (2003) and Venkatesh, Thong, and Xu (2012); Baptista and Oliveira, (2015); Zuiderwijk, Janssen, and Dwivedi (2015). 2. TRI constructs adopted from Parasuraman and Colby (2015) These questions comprise the TRI 2.0 which is copyrighted by A. Parasuraman and Rockbridge Associates, Inc., 2014.						
FRAMEWORK	Technology readiness Optimism Innovativeness Discomfort Insecurity	н5 Нб	Performance expectancy Effort expectancy Social influence Facilitating conditions	H1-4	Behavioral intention		
NTRIBUTIO	 Give a valuable insight on the determinants of direct impact of digital technologies adoption and readiness by integrating UTAUT and TRI. Examine the impact of digital technologies on the service industry especially in accounting profession. Hence, this study support the initiatives taken by the MIA to have national initiative on IR4.0 for the service sector. create awareness to the accounting profession the need to upskill and reskill themselves with IR4.0 tools. Thus, they are able to compete and be relevant in the accounting industry. 						
Th Mi	ACKNOWLEDGEMENT is project is funded by MU under the IR Fund ant. MMUI/210097	moderators. Computers in Hu Hart, L. (2017). How Industry. https://www.iournalofaccoun Parasuraman, A., & Colby, C. L Venkatesh, V., Morris, M. G., I 478. Venkatesh, V., Thong, J. Y., & J use of technology. MIS quarte Zuiderwijk, A., Janssen, M., 8	4.0 will change accounting. Here's what CPAs need to kn tancy.com/newsletters/2017/sep/industry-4-0-change- (2015). An updated and streamlined technology readil Davis, G. B., & Davis, F. D. (2003). User acceptance of inf Xu, X. (2012). Consumer acceptance and use of informa	ow about the next industrial revol accounting.html. ess index: TRI 2.0. Journal of servic ormation technology: Toward a uni tion technology: extending the unif of open data technologies: Drawin	ution. Journal of Accountancy e research, 18(1), 59-74. fied view. <i>MIS quarterly</i> , 425- ied theory of acceptance and		







Prof. Dr. Lai Ming Ming, Fatin Zaida Zaidi, and Anisah Binti Jumaat Faculty of Management, Multimedia University

INTRODUCTION



Pandemic COVID-19 and high living cost gave impact to the whole world - it affects human's well-being



Especially on the low income earners who face financial stress and have affected their wellbeing

SCIENCE OF MINDFULNESS

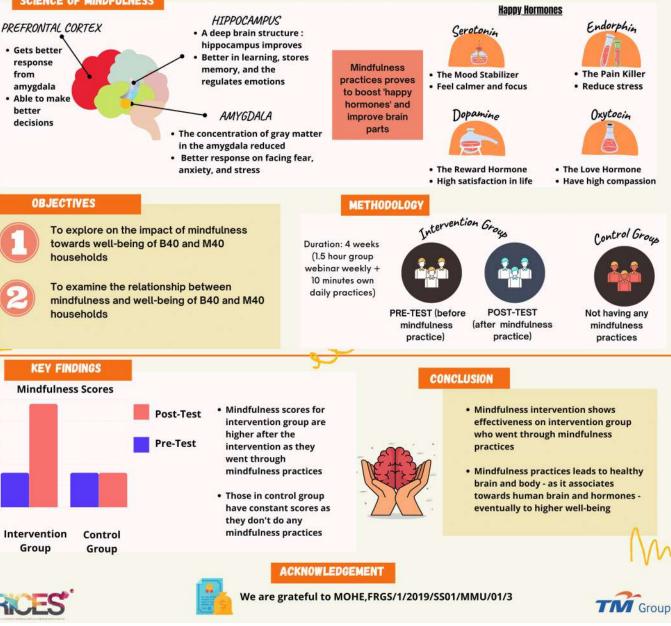
 Gets better response from amygdala Able to make better



Mindfulness is bringing one's complete attention to the things that happen in the present moment in a non-judgmental way (Brown & Ryan, 2003)

Mindfulness practices

- Notice your breath
- · Focus on breathing
- Don't multi-task
- · Focus on 1 task at one time





ONLINE YOUTH VOLUNTEERISM : AN MMU EXPERIENCE Ts. Dr. Anusuyah Subbarao & Assoc Prof Dr. Chong Chin Wei Faculty of Management, Multimedia University Introduction Youth volunteerism, is one of the most dynamic delivery mechanism for social, environmental and economic transformation, ensuring a long-lasting impact with its ability to change people's mindsets, attitudes. There are very limited resources in Malaysia for young people especially university students to access the opportunities of offering their volunteering services. There is no proper platform for them to identify volunteering opportunities. On the other hand, very often NGOs or organizations face difficulties in getting volunteers to help them in some verses for the heading of the other hand, very often NGOs or organizations face difficulties in getting volunteers to help them in some events for the benefits of mankind. Hence, a communication bridge is needed here to facilitate university students' engagement in community life. To develop an online platform that bridge university students with various volunteering opportunities. To investigate the To examine the effectiveness To propose motivators and To promote of online platform in engaging recommendations for challenges of university students in volunteerism among university students in improvement of online university students volunteering opportunities. platform. volunteerism Method **Research Impact** Start · Centre / RI: the online platform offers easier communication bridge among youth and participating organizations/ NGOs in volunteering opportunities. To attain a healthy and happy society, this would Vebsite Develop improve civic conduct among youth and better social engagement. Faculty: Volunteerism can assist students develop skills and talents that will improve their "social inclusion" and active engagement in order to envision a more sustainable future. romoting website to NGO and students University: Volunteering experiences improve students' job market employability; it also serves to promote MMU's reputation and branding as a good society-serving university, which may help to Fuent On-Gnine increase student enrollment in the future. Novel theories/New findings/Knowledge · This will provide university students an opportunity to help the Figure 1. Activity Workflow society that needs their helps which currently not common in Malaysia. This project is the new beginning to better community Online Youth **Online Youth** engagement for the students. a Sem Volunteerism It can provide a national rules or society behavior such as Japan and South Korea that have very high civilization to be followed by Malaysian starting from university students. **Special Highlight** 1800 ual of Research in Education and Social Sciences #JSSN: 2682-8592 | Vol. 3, No. 3, 98-103, 2021 Figure 2. Volunteer Recruitment Brochure & Seminar Flyer Student Volunteer as A Catalyst for Change Subbarao, A.1*, Chong Chin Wei¹, Nasreen Khan¹, Nirmaladevi² Findings ¹ Faculty of Management, Multimedia University, Cyberjaya, Malaysia ² Institut Pendidikan Guru Kampus Ilmu Khas, Kuala Lumpor, Malaysia A website that match opportunity and volunteers. · It will allow volunteers to register themselves in the website and a *Corresponding Author: anasuyah subbarao@mmu.edu.my company/NGO will request help from the registered volunteers in Accepted: 15 August 2021 | Published: 1 September 2021 their society-beneficial projects / events.

Ts Dr Anusuyah Subbarao FOM, MMU Assoc Prof Dr. Chong Chin Wei FOM, MMU







PEER MEDIATION IN HIGHER EDUCATION INSTITUTIONS IN MALAYSIA

Wong Hua Siong Faculty of Law, Multimedia University Dr. Hanna Binti Ambaras Khan, Universiti Putra Malaysia

ABSTRACT

Conflicts among the university students may create the disharmony among the students as they may not be able to handle these conflicts independently. Thus, this research is to study the effectiveness of peer mediation in resolving serious conflicts among the university students.



Methodology

This is qualitative study that involves a of library study. Various primary secondary data sources namely cases, statutes, articles and journals from online database will be studied and analysed. Role play among the selected students and interview with them in order to obtain the feedback.

Peer mediation will involve an impartial third party to assist in the problemsolving process in order to facilitate the students to resolve the dispute by using effective communication, negotiation and problem-solving skills to reach a mutually beneficial agreement. However, there is no clear mechanism implemented in higher education institutions in Malaysia.



Research Questions

- What could be the methods taken by the higher education institutions in resolving dispute among the peer in Malaysia?
- 2 What is the mechanism to apply peer mediation in higher education institutions in Malaysia?



Research Objectives

- To determinate the methods taken by the higher education institutions in resolving dispute in university.
- To propose the mechanism to apply peer mediation in higher education institutions in Malaysia.



Discussion

- Peer mediation is a program that teaches students in higher education institutions to resolve the disputes among themselves. To become a student mediator, it is suggested that a student must complete an application and to be interviewed by the academics who have the mediation qualification. If the students are accepted into the program, it is suggested that they must complete an 8-hour course to strengthen the skill of mediation.
- A set of mechanism of peer mediation can be applied in peer mediation process.

In view of Covid-19 pandemic which restricted face-to-face meeting, peer mediation could be done via online.



- "If you want to make peace, you don't talk to your friends. You talk to your enemies." Mother Teresa.
- We are not looking for who's right or wrong, we are looking for an agreement.

References

- Jenna Strawhun, Ken Parnell, Reece L. Peterson, Shir Palmon, University of Nebraska-Lincoln. Peer Mediation, . Tier 1 & 2, Intervention.
- Maureen F. Block and Barbara Blazej, Resolving Conflict with a Peer Mediation Program: A Manual for Grades 4-8, A collaborative project of the Peace Studies Program, University of Maine, and Maine Law & Civics Education, University of Southern Maine, with support from the Division of Family Health, Maine CDC, Department of Health and Human Services.



Acknowledges

The author acknowledges Multimedia University, Melaka for their support in sponsoring the expenses for the author to attend RICES 2021. The responsibility for any errors that may be present in this presentation remains with the author.

Commercialization Potential

- To use as a mechanism to reduce the disputes, including dispute among the staff or lecturers and the students.
- Successful conflict resolution is essentially a problem-solving exercise, which involves achieving winwin situations rather that the win-lose outcome that competition and fighting tends to achieve.







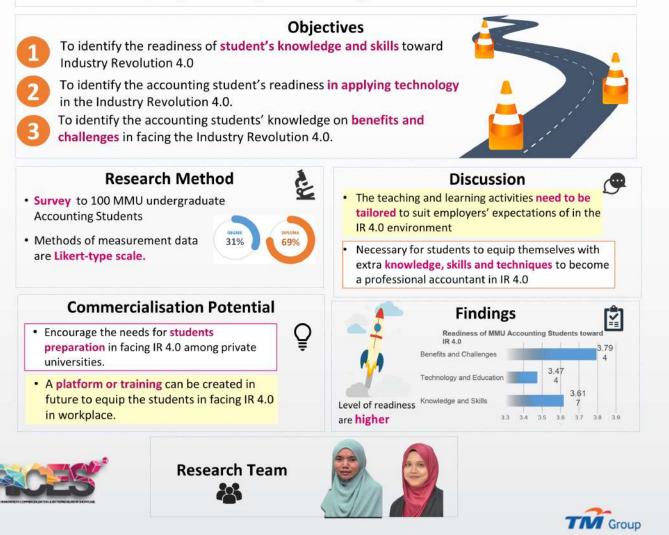
Fathiah Hashim | fathiah.hashim@mmu.edu.my

Nur Hazilah Zulkaply I nurhazilah.zulkaply@mmu.edu.my

Abstract

The roles of Industrial Revolution 4.0 are expected to **significantly impact** the workforce, especially with the implementation and **usage of technologies**. The industry will subsequently demand for a higher qualification and skills from candidates, where most business activities are expected to be replaced by the technology (Sani, 2018). **Major challenges** arise as new workers will tend to **lose their jobs** when they fail to embrace the technology. Hence, a sufficient knowledge and skills of the accounting students is very crucial to equip them with the Industrial Revolution 4.0. Thus, this study aim to examine the readiness level of the accounting students in private university towards the Industrial Revolution 4.0.

The students readiness are being assessed in term of their **knowledge and skills**, **application of technology**, as well as **benefits and challenges** of Industrial Revolution. The study uses questionnaires and Likert Scale as measurement. The data collected were analysed using Statistical Package for the Social Sciences (SPSS) software. The findings shows that the readiness among students are high, where their readiness in term of benefits and challenges of IR4.0 contributes the most, followed by readiness in term of knowledge and skills, and their readiness in term of application of technology. Although the result shows their overall readiness level is high, there are certain item in the questionnaires where the students lack of exposure, especially regarding the application of technology in IR4.0 that become the main element in the latest revolution. Finally it is recommended that more awareness shall be made especially towards the application of technology in the IR 4.0.







RISK MANAGEMENT OF CLOUD COMPUTING PROJECTS IN HEALTHCARE

Researcher : Muhammad Afif Bin Mohd Fathullah

Supervisor : Ts.Dr.Anusuyah Subbarao and Prof Dr.Saravanan Muthaiyah

INTRODUCTION

Cloud computing has progressively been seen as a major driver for innovation (Ali et al, 2017) and has been adopted in all sectors around the world. However, cloud computing adoption in the healthcare sector is still limited (Ali et al, 2016; Hertin and Al-Sajary, 2018). This may be attributed to little research in cloud computing adoption in healthcare particularly in the risk management aspect of the project. As such, this research aims to construct a risk management methodology/guideline for cloud computing projects in healthcare.

METHODS

The research design used is the mixed-method with the research philosophy being pragmatism.

to understand the important concepts,

indicators, and metrices of risk of cloud computing in healthcare

Systematic literature review will be used

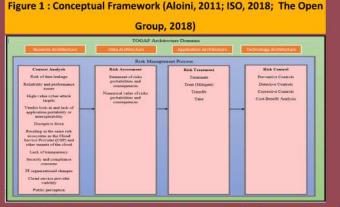
Semi-structure interview with Delphi method will be used to finalize the indicators and metrices of risk of cloud computing in healthcare along with their consequences, probabilities and possible

control procedures



Risk model simulation will be used to quantify and gives a numerical risk level for the risks found from this study

Table 1 : Cloud Computing Project Risk C	Classes (COSO, 2012; NSH,
2018)	
Disruptive force	
Residing in the same risk ecosystem as the Cloud Service	Provider (CSP) and other tenants o
the cloud	
Lack of transparency	1
Reliability and performance	e issues
Vendor lock-in and lack of application portal	bility or interoperability
Security and compliance co	oncerns
High-value cyber-attack ta	argets
Risk of data leakage	
IT organizational chang	ges
Cloud service provider via	ability
Public perception	



RESULTS

After an extensive search by the researcher it has been found that there is truly little research that has been done in the case of "risk management of cloud computing projects in healthcare". As only one guideline of "risk management cloud computing" adoption specifically for the healthcare was found which was constructed by *There is also little guidance available in "risk management of cloud NSH.

DISCUSSION & CONCLUSION

It has been found that there has been relatively little research in the topic of "risk management of cloud computing projects in healthcare".

computing projects in healthcare".

Moving forward, this study aims to add additional research into these gaps as there are truly benefits that cloud computing can give to the healthcare sector.





Muhammad Afif Bin Mohd Fathullah FOM, MMU

Ts Dr A aus ah Subb FOM, MMU







Shifting Volunteerism from the Reality into the Digital World: Perspective from Young Millennials

Noor Saadah Zainal Abidin, Juliana Rosmidah Jaafar, Nurul Hazwani Kamarudin & Noor Hidayu Zakaria Infrastructure University Kuala Lumpur (IUKL)

Volunteerism by definition is the practice of providing time and skills for the benefit of other people and causes rather than financial incentive. This noble action could unite people of different races, ages, religions, and localities for a common cause.

Objective: To explore the concept of digital volunteerism among young people.

Methodology: This is a qualitative study using interview approach. A total of six informants from a local higher institution were interviewed (3 males, 3 females). The informants' age ranging from 18 to 24 years old.

Result: The involvement in digital volunteerism by these young people were rooted in the practice among family members. Family practices such as face to face donation or helping family members doing house chores have strengthen the sense of volunteerism, which extend through their online activities.

Implication: The results could highlight the importance of understanding the digital volunteerism and to advocate the policy of healthy lifestyle among young people.

Conclusion: In short, study has highlighted the potential of digital volunteerism among young people and the role of family practice in shaping positive value in prosocial behaviour. Future studies could aim to extent the views of "digital volunteers" among digital volunteers.

Commercialization Potential:

1. Digital volunteerism could reach a wider population, therefore by developing a network system in this area, a more systematic volunteer management could be develop.

2. Digital volunteerism could be promote as a trend to the young millennial via social media which serve as a proxy of positive behavior.

Acknowledgements: This project is funded by RIPHEN grant.





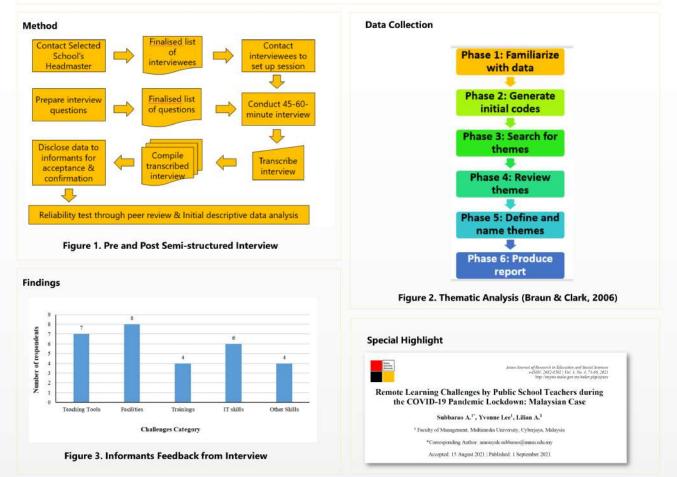
SUCCESSFUL COPING PRACTICES FOR DIGITAL TEACHING DURING MOVEMENT CONTROL ORDER IN MALAYSIA

Ts. Dr. Anusuyah Subbarao, Dr. Yvonne Lee Lean Ee & Ts. Dr. Lilian Anthonysamy

Faculty of Management, Multimedia University

Introduction

The 2020-2021 COVID-19 pandemic caused a nationwide lockdown that closed all schools in Malaysia. This drastic transformation has changed the way education is delivered, to be primarily online. This has affected how teachers transfer knowledge remotely. Limited studies have investigated the struggles of school teachers pertaining to the implementation of digital learning in schools during the Movement Control Order in Malaysia (Nielsen et al., 2015). Therefore, there is a pressing need to explore the remote teaching difficulties faced by public school teachers during pandemic conditions in Malaysia. The outcome of this research would assist teachers to better adapt to a smoother implementation of digital remote learning process.



Conclusion

This study mainly discussed the remote teaching difficulties faced by public school teachers during pandemic conditions in Malaysia. From the study, it can be noted that teaching tools was the most important element on contributing to the teacher's challenges apart from facilities, training, IT skills and other skills . This means that teacher's technical capabilities to use online teaching tools is imperative, as it will affect the equality of digital remote learning. Thus, it is suggested that teachers adopt a digital mindset by harnessing related digital technology to managing virtual classrooms to adapt to this new norm.

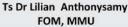




Ts Dr Anusuyah Subbarao FOM, MMU

Dr Yvonne Lee Lean Ee FOM, MMU









SUSTAINABLE ENTREPRENEURSHIP IN MALAYSIAN COMPANIES

Cheah Wen Fong, Yuen Yee Yen, Wendy Teoh Ming Yen, Suganthi Ramasamy Faculty of Business, Multimedia University Malaysia

Respondents

Course of data

BACKGROUND

- To understand how sustainable entrepreneurs find and form sustainable strategies, it is necessary to understand the basic theory of the search process and realization (Platteau, 2017). This research will investigate the current ideas of entrepreneurship and sustainable advancement to concur on a definition as the reason for the following discussion and study.
- There is an urgent need to require a better understanding of how contextual variables influence socialization and the methods in which socializing sustainable organizations tinted o accomplish their objectives (De Cuyper, 2016). Therefore, this research aims to identify and form a sustainable strategy by focusing on sustainable enterprises.

RESEARCH OBJECTIVE

The purpose of the research is to study how

companies determine and formulate sustainable entrepreneurship strategies and what are the

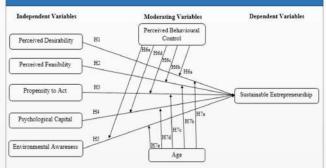
key factors affect this process.

Data Collection Method Manual survey distribution Entrepreneur from each Malaysian SMEs Primary Data

Methodology

Source of data	Primary Data	
Sampling Size	 Distribute 400 questionnaire Distribute at least 134 sets questionnaire in each 3 states with the highest percentage of SMEs in Malaysia: > Selangor > Kuala Lumpur > Johor 	
Sampling Design	Two-stage cluster sampling 1 st stage: Random sampling technique 2 nd stage: Stratified random sampling	
Questionnaire Design	Part A: Demographic Profile & Moderating Variables Part B: Dependent Variable Part C: Independent Variables	

RESEARCH FRAMEWORK



REFERENCES PILOT TEST Variables **Cronbach's Alpha** Items Count 1. De Cuyper, L. 2016. "Doing Good While Making Profit: SE 0.944 Perspectives on Reconciling Multiple Objectives in Social PD 0 0.936 Enterprises." PF 6 0.881 Sustainable 2. Platteau, Arne. 2017. "How Do PTA 8 0.865 0.967 26 ES Entrepreneurs Form Their Sustainability Strategy? 0.914 Evidence From South.": 1-218.







TEACHING AND LEARNING OF MATHEMATICS WITH EDUBOT

Tan Choo Peng, Tan Choo Kim, Lau Siong Hoe, Koo Ah Choo, Lee Chin Poo

Faculty of Information Science and Technology,

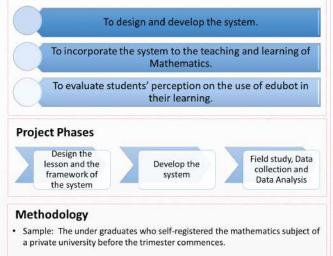
Multimedia University

Abstract

Mathematics is a fundamental core subject to many other subjects especially STEM subjects. Hence, mastering Mathematics subject is the key for students to be able to understand the concepts of other discipline better. However, students are lack of desirable attitudes towards mathematics such as self-confidence, self-efficacy, enjoyment, motivation, and value. These negative attitudes towards mathematics tend to lead them to low level of achievement, unable to complete his studies on time or dismiss from continuing his study (Nickerson, Bjorkman, Ko & Marx, 2017) in higher level of study. Ma (2012) shown the feeling of enjoyment but not the feeling of difficulty in mathematics learning directly affected students' achievement. Besides, students' negative attitudes towards mathematics and low level of achievement in probability made the mathematics concepts cannot be taught effectively when the instructor is teaching it (Bulut, S. 2001). On the other hand, the large size of university classes makes both lecturer and students have difficulty to give or get individualized support and engage effectively. This tend to cause weak learning outcomes, high dropout and dissatisfaction (Brinton et al., 2015; Eom, Wen, & Ashill, 2006; Hone & El Said, 2016).

Chatbots have the potential as the solution. They are the computer programs engage with human users in a dialogue using natural language for various purposes. Even thought they are becoming an ubiquitous trend used in many fields, but they are still at the beginning of expansion stage and will spread more in the education field (Chatbot's Magazine 2017). Its implementation in education is still found very limited (Winkler, R. & Söllner, M., 2018) especially in Malaysia and in Mathematics subject. This project is to design and to develop a mathematic educational chatbot (edubot) aimed to create an enjoyment environment to help students in learning mathematics and to evaluate students' perception on the use of edubot in their learning.

Objectives



- Instruments: Edubot Perception Inventory, EPI (with 5 Likert-scale (1-Strongly disagree to 5-Strongly agree), Interview
- Procedures:
- Before the Invention of the System The students are briefed about the purpose of the study and the edubot before they use the system for learning.
- During the Invention of the System The students are taught by the human instructor in class and use the system outside the classroom for a month.
- After the Invention of the System
 - EPI is given. Interviews to a small sample of students.

Usefulness

- It is hope that this study may provide more insight on a more effective incorporation of edubot and will furthermore benefit educators, researchers and students.
- The developed system may use by any mathematics subjects that have the same syllabus to the system.



Result and Discussion

This project is now at the beginning stage of Phase III, thus, quantitative analysis have not been done completely. Hence, only some preliminary result will be presented.

This project is participated by 37 undergraduates whose age ranged from 19 to 24 years old at which 20 (54.05%) are male and 17 (45.95%) are female students. The sample consists of 31 (83.78%) local students multiracial (Malays, Chinese, Indians, and others) and 6 (16.22%) international students (Arabians, Jordanian, Iranians). Table 1 shown the mean and starrder deviation of each statements of the adapted questionnaire on the students' perception toward this incorporation.

Table 1: Mean and Standard Students' Perception on the Conve Usage			.548 is lecture
Statements	Mean	Standard Deviation	clear.". of .833
The edubot is easy to use.	4.00	.577	the sul
I could interact with the edubot.	3.94	.440	Ove
The edubot presented the lectures effectively.	4.11	.613	questio
The edubot presented the examples effectively.	4.00	.527	percep with S
The edubot presented the exercises effectively.	4.11	.809	averag
The lecture contents given by the edubot is useful.	4.03	.600	the use Sor
The lecture contents given by the edubot is clear.	4.24	.548	studen
The edubot is useful for revision.	4.08	.722	easv g

The edubot is useful for doing 4.00

Content of the lessons in the edubot 4.11

I prefer to learn the subject without 2.97

is useful and sufficient The edubot is knowledgeable

The edubot is instructor-like

The edubot is intelligent.

The edubot is useful

The edubot is helpful.

The highest mean of 4.24 with SD of .548 is recorded by the statement "The lecture contents given by the edubot is clear.". The lowest mean of 2.97 with SD of .833 is recorded by "I prefer to learn the subject without the edubot.".

Overall, the average of this questionnaire to understand students' perception on the edubot usage is 3.99 with SD of 0.69. This implies that on average, students' perception towards the use of edubot is favorable.

me of the positive feedback of nts from the interviews are it is get the materials and references .667 under one roof, easy to get the instant assistants whenever and wherever they .699 need it, the edubot guided them to 664 solved problem, it is a fun way to learn .774 mathematics, they feel happy and .567 satisfied to learn with the edubot, it is .536 very relax without feeling embarrass in 780 .833 learning with the edubot, etc.

The results of this study are in line

with the studies done by Fink. J., 2012 and Winkler R, Bittner E. & Söllner M. A., 2020 that show that students perception of edubot of being usable and pleasurable.

Conclusion

tutorial.

Further possible analysis (t-test, ANOVA, etc) will be perform.

3.95

3.89

4.11

4.14

 The findings indicate that students were favorable to the incorporation of edubot in their study as they were experiencing it for the first time in learning, specifically for mathematics subject.





THE DETERMINANTS OF FARMER'S ADAPTATION TO CLIMATE CHANGE: A CASE STUDY IN CAMERON HIGHLANDS

GRA (Graduate Research Assistant): Tey Ruoxi

Project Leader: Dr Choon Shay Wei

Project Members: AP Dr. Tan Siow Hooi, Dr. Tan Siow Kian, AP Dr. Ong Hway Boon, AP Dr. Goh Choo Ta, Dr. Tan Kok Weng, Dr. Lee Jing

Abstract

Cameron Highlands, one of the major food suppliers to Malaysians, is experiencing climate change. Research has proven that climate change has a definite effect toward the agriculture sector. Besides, agriculture acts as a very important role in the livelihood of the communities living in Malaysia as it contributes to Malaysia's economic growth as well as food security (Department of Statistics, 2021). Hence, this study examine the determinants of farmer's adaptation to climate change in Cameron Highland and wish to serve as a reference information toward designing suitable agriculture policies for Malaysia by the policy makers.

Research Methods

This research will collect the primary data through surveys. The questionnaire is developed on the basis of the conceptual framework involving the prediction of a few variables and its relationship. The data will be analyzed via descriptive analysis and factor analysis.

Descriptive Statistics

Catogories	Variable	Description	Sample mean	Std. Dev.
Demographic	Age	Age of farmers	36.20454545	7.3911571
	Gender	Male = 1 Female = 2	1.204545455	0.404289
	Household number	Household number	4.4	1.0828678
Human Capital	Education	Primary School = 1 Secondary School = 2 Diploma / Polytechnic = 3 Bachelor Degree = 4 Master Degree = 5	2 536363636	0.9525479
	Farming Experience	< 3 years = 1 3 - 10 years = 2 11 - 20 years = 3 21 - 30 years = 4 >30 years = 5	2.3	0.6696281
Farming Lifestyle	Sleeping Hours	Sleeping Hours / day	7.422727273	1.3509448
	Farming Hours	Farming Hours / day	7.1	2.0715512
Farming Backgroun	Full Time / Part Time	Full time = 1 Part time = 2	1.077272727	0.2676326
	Farm Size	<2 Hectares = 1 2 - 4 Hectares = 2 5 - 7 Hectares = 3 8 - 10 Hectares = 4 > 10 Hectares = 5 Durnmy = 1 if the farmer belives	2.315068493	0.7271292
Perceived changes	Climate belief	climate has changed in Cameron Highlands, 0 otherwise	0.972727273	0.1632485

Table 1: Determinants of farming adaptation decision

Conclusion

The research was conducted in Cameron Highlands. The tables above showed the descriptive statistics for the surveyed farmers. Table 1 showed the average and standard deviation of each categories of determinants. Table 2 shows that 69.4% of the farmers adopted to at least 4 adaptation strategies for their farm in response to the climate change. Table 3 presents differences in the characteristics of adapters with more than 3 strategies and less than 3 strategies. From demographic categories, the age and household size of farmers who adapt to at least 4 is slightly lower than adapters who adapt less than 4. However, the education level and farming experience is slightly higher. Looking into farming lifestyle, adapters with at least 4 adaptation strategies tend to sleep lesser and spend more time in farming. Adapters with at least 4 adaptation strategies strongly believe that climate change is happening in Cameron Highlands.



Adaptation	Number of respondents	Percentage	
Less than or equal to			
3 adaptations	67	3	0.6
More than 3 adaptations	152	6	9.4
Total	219		100

Table 2: Farmers adaptation to climate change

Catogories	Variables	Adapters with more than 3 adaptation strategies	Adapters with less than or equal to 3 adaptation strategies	Difference
Demographic	Age	37	40	-3
	Household size	4.01	5.58	-1.57
Human Capital	Education Level	4.8	3.7	1.1
	Farming Experience	2.2	1.9	0.3
Farming Lifestyle	Time Spent on Sleeping (hours/day)	6.8	7.5	-0.7
	Time Spent on Farming (hours/day)	7.2	7.1	0.1
Farming Background	Full Time / Part Time	0.98	0.84	0.14
	Farm Size	2.1	1.75	0.35
Perceived changes	Climate belief	0.95	0.89	0.06

Table 3: Farmers characteristics of adapters with more than 3 adaptation strategies and adapters with less than or equal to 3 adaptation strategies

References

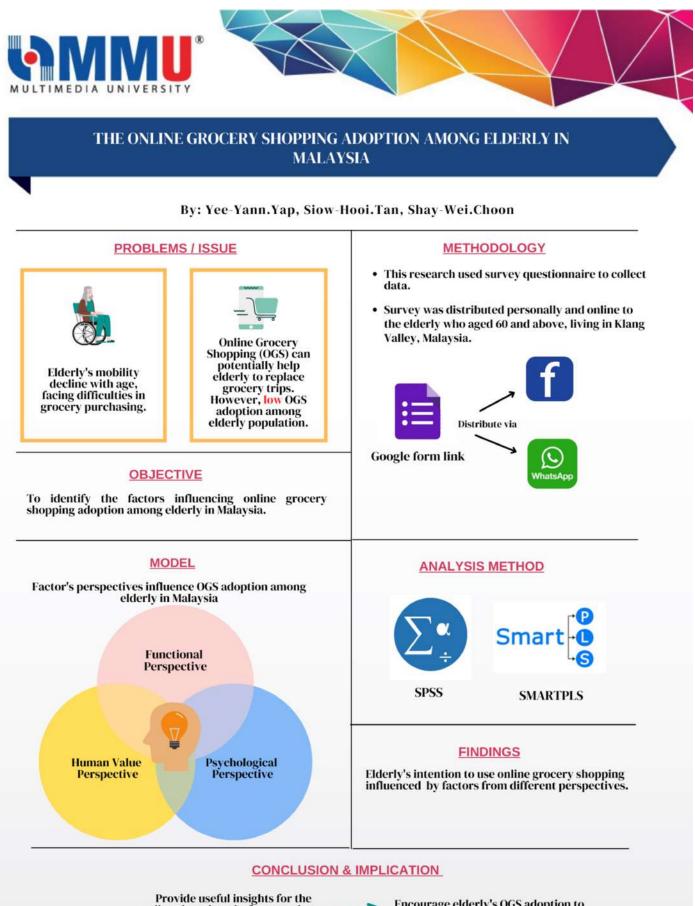
Department of Statistics, M. (2021). Department of Statistics Malaysia Press Release Producer Price Index Malaysia August 2015. Febuary, 4–8.

https://www.dosm.gov.my/v1/index.php?r=column/pdfPrev&id=RkN SZFJSenVPT2JjeUhKam1mZG5lQT09

Acknowledgement

This research is fully supported by the FRGS grant, FRGS/1/2019/WAB01/MMU/03/1.





online shopping platform marketer and developer to create an elderly friendly sites.

0

Encourage elderly's OGS adoption to replace grocery trips, hence able to achieve independent living.

Acknowledgment Financial support provided by the Ministry of Higher Education (MOHE), Malaysia under Fundamental Research Grant Scheme (Ref: FRGS/1/2019/SS06/MMU/02/3) is gratefully acknowledged.





THE PROPOSAL OF REGULATORY MODEL ON CYBER SECURITY FOR FINANCIAL TECHNOLOGY (FINTECH) ADOPTION IN ISLAMIC FINANCE IN MALAYSIA

Azwina Wati Binti Abdull Manaf, Dr Guru Dhillon, Dr. Yang Chik Adam, Norazuan Binti Amiruddin & Muhammad Ilyas bin Ab Razak

ISLAMIC FINTECH IN

Hui et al (2019) stated that there is enormous potential for Islamic Fintech in Malaysia thus, there must be a resilient regulatory framework in place to oversee the industry. Existing legislations can be amended to accommodate Islamic Fintech or a new specific Act specially tailored for Islamic Fintech can be enacted

METHOD

Mixed method

study

RESEARCH OBJECTIVES

- 1. To investigate the phenomenon of Islamic Fintech globally with emphasis in Malaysia through analytical research methods
- 2. To explore on the existing regulatory instruments in Malaysia
- 3. To study their boundaries as well as limitations and contribute on
- possible reform to regulate Islamic Fintech in this jurisdiction.

What is law to be adopted to govern law on cyber security if Fintech in Islamic Finance in Malaysia

What are the existing regulatory framework governing Islamic fintech in Malaysia

RESEARCH OUESTIO

What is the appropriate legal provisions for regulatory framework that will fill in the lacuna in our existing law?

PROBLEM STATEMEN

sound platform for investors to transact.

The primary data acquired through cases, statutes, regulations as well as interviews and the secondary data will be from law reviews as well as journals. Secondary data

As supporting data from qualitative data collected through interviews, observations and documents.

· Primary Data Library Research/ Legislation/Case

Interviews & Pilot Study of the viability and the accuracy of the proposed questions. The respondents include amongst others islamic finance law, banking law and cyberlaw academics, a representative from the AG's Chambers, select Judges, legislators and academic writers from this area

SIGNIFICANCE OF STUDY

This research developed a proposal on regulatory model of Islamic Fintech in Malaysia and brought a significant impact to all parties involved in the Islamic Finance sector especially those workers involved in information technology, internet of things, legislators, academicians and students. The finding of this study encouraged more investors especially from Middle East to come to Malaysia and invest in our Islamic Finance industry

PROJECT ACHIEVEMENT

REFERENCES

Alam, Nafis, and Lokesh Gupta. "How FinTech Can Tap into Islamic Finance." Wahed. May 19, 2017. Accessed February 19, 2018. https://journal.wahedinvest.com/how-fintech-can-tap-into-islamic-finance/. Ariff, Mohamed. Islamic banking in Southeast Asia: Islam and the economic development of Southeast Asia ;. Pasir Panjang, Singapore: Inst. of Southeast Asian Studies, Social Issues in Southeast Asia, 1992. Aris, Nooraslinda Abdul, Rohana Othman, Rafidah Mohd Azli, Mardiyyah Sahri,

Dzuljastri Abdul Razak, and Zaharuddin Abdul Rahman. "Islamic Banking Products: Regulations, Issues and Challenges." Journal of Applied Business Research (JABR)29, no. 4 (2013): 1145-156. doi:10.19030/jabr.v29i4.7922. Bello, Shafii Abdul Aziz, and Abdul GhaniyiAbdur Raheem Zubaedy. "Shariah Governance Framework Model for Malaysian Islamic Banking and Finance: A Critical Analysis." IOSR Journal of Business and Management17, no. 10 (October

Indexed Journal

2015): 9-19.

Fintech In Malaysia: An Appraisal to the Need of Shariah-Compliant Regulation, Pertanika Journal of Social Science and Humanities 28(4):3223-3233 Fintech and the Transformation of the Islamic Finance Regulatory Framework in Malaysia, Emerging Issues in Islamic Finance Law and Practice in Malaysia, Emerald Publishing (Chapter in Book)

Conference Proceeding

Fintech and the challenge of digital disruption in Takaful Operation in Malaysia, 3rd Asia International Multidisciplinary Conference (AIMC 2019) Embracing new world of islamic fintech in malaysia: moving towards digitalisation era, 9th International Economic and Business Management Conference (IEBMC 2019)



ACKNOWLEDGEMENT: This study is sponsored by Fundamental Research Grant Scheme (FRGS) offered by the Minister of High Education Malaysia (MOHE) 2018 (FRGS/1/2018/SSI10/MMU)





Finance (IBF) industry. It is expected that this technology will attract more

customer and investors in Malaysia. However, to date, there is no

regulatory framework created to govern and rule this transaction, which

make the customer in doubt, knowing that they are exposed to risk

especially in cyber security. In several state, there are regulatory provided

by the legislators to ensure that they will be able to provide a safe and





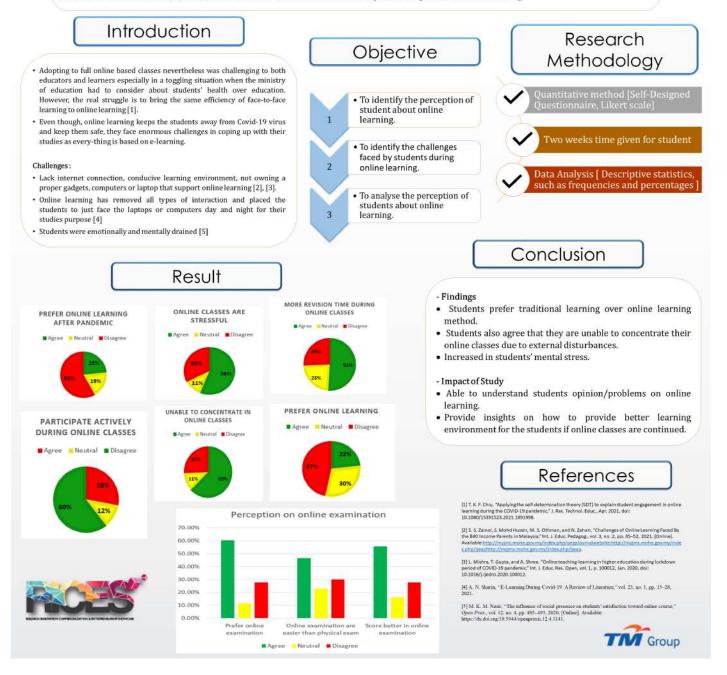
UNDERGRADUATES' PERCEPTION ON DISTANCE LEARNING DURING PANDEMIC

Clara A/P Susaie, Tan Choo Kim

Faculty of Information Technology, Multimedia University, Jalan Ayer Keroh Lama, Bukit Beruang, Melaka, Malaysia.

Abstract

Pandemic Covid-19 have taught the educators to have reserve plans especially in higher education. During the outbreak, higher institutions students faced utmost difficulties in experiencing in campus environment through online learning platforms. Even though we are in the edge of transforming the face-to-face learning to online learning before another virus outbreak or any similar situation happen, the debatable or existing issues about online learning should not be ignored. The purpose of this paper is to identify the perception of undergraduates on distance learning approach during the pandemic and challenges faced by them. The findings show that 58.2% which is 25 of the students prefer face-to-face learning even after the pandemic over. About 62.8% of them complaint that they are unable to concentrate on distance learning without having any external disturbance. In other words, their studies were affected due to external interruption during distance online learning.





USING THE GOLDILOCKS PRINCIPLE OF DIGITAL LEARNING STRATEGIES TO ACHIEVE LIFELONG LEARNING: AN OMNITEMPORAL SKILL FOR TERTIARY STUDENTS

Ts. Dr. Lilian Anthonysamy, Faculty of Management

Digital learning

Digital learning has become the norm as the pandemic abruptly forced schools, colleges, and universities to close down. It has accelerated the digital transformation of education, particularly higher education. This new paradigm makes it crucial for graduates to equip themselves with digital learning best practices to help repurpose their lives as lifelong learners.

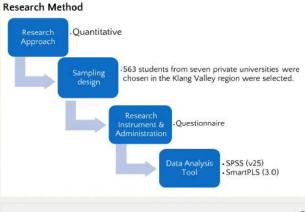
Research Aim

This study aimed at examining how self-regulated learning strategies and digital literacy are pivotal to improving digital learning attitudes and practices of tertiary students to become lifelong learners.



Problem Statement

Acquiring lifelong learning abilities is must-have omnitemporal skill among individuals. Researchers accentuate that self-regulative abilities and digital literacy can contribute towards a self-driven attitude which assist in the development of lifelong learners. However, there is still a dearth of research investigating SRLS and digital literacy on lifelong learning effectiveness. Therefore, there is a need to speed up the quality of learning by fostering SRLS and digital literacy(Zhao, Wu, & Liu, 2020; European Commission, 2020; Egan, 2020).





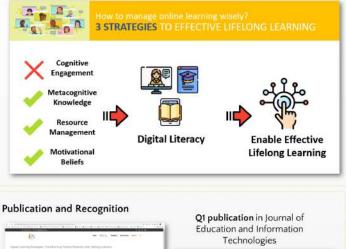
Goldilocks Principle

The Goldilocks Principle in digital learning stipulates that a learning experience must fall in the middle of the challenge spectrum, and steer clear of the extremes.

How to motivate students with the "just right" learning strategies to achieve lifelong learning?

Key Findings and Discussion

Based on a comprehensive analysis, three domains of self-regulated learning strategies were identified to influence digital literacy and lifelong learning efficiency, that is, metacognitive knowledge, resource management, and motivational belief. Contrary to some of the past literature, this study showed no positive relationship between cognitive engagement and digital literacy. Such in-depth understanding of learning strategies and their impact on digital skill mastery can improve the digital learning experience of students and prepare them to face future uncertainties.





Sponsorship by Multimedia University to feature in ies Research platform (a team of experts that uses social media to share our article globally to improve research visibility and increase scholarly engagement.

Conclusion



The United Nations' 4th Sustainable Development Goal, quality education, emphasizes the need to provide the younger generation with relevant skills to secure employment. Thus, the findings of this study would be useful for students and educators to structure learning habits and tasks in line with promoting skills of the future as lifelong learners.



Ts Dr Lilian Anthonysamy FOM, MMU





SOCIAL INNOVATION

A THE PARTY

SILLS,



AN ENERGY EFFICIENT AUTOMATIC CONTROL POULTRY EGG INCUBATOR

Project Leader: So Zheng Guan Supervisor: Associate Professor Dr. Lee Tian Soon

Description of the Project

- This is an Internet of Things (IoT) egg incubator that is able to incubate an egg artificially by regulating the factors such as temperature, humidity and turning the eggs when necessary and store all the temperature and humidity readings into cloud server and visualize from webpage.
- The smaller capacity of egg incubator used in this project to let investigator such as student, child able to observe the incubation process.

Objective

- To increase the percentage of hatching rate for chicken egg.
- To shorten the time to incubate chicken egg.
- To reduce the cost of building egg incubator.

Community Name

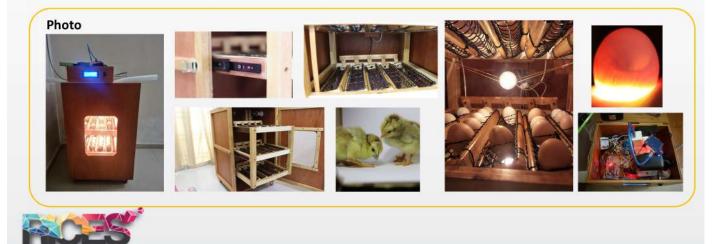
Creative and Innovation Team (CAIT)

Description of the Projects / Technologies

- This project is using Arduino Wi-Fi Module ESP 32 Microcontroller as the main controller to collect input data information, control output response and upload temperature and humidity readings onto cloud server through Wi-Fi.
- A 20x04 LED Displayer are used as the main screen to show the 2 temperature and 2 humidity readings from hot and cold spot.
- The fluorescent bulb are used as the heating element to provide warm for poultry egg and light for investigator to investigate the incubation process. DHT 22 are used to collect the temperature and humidity reading from hot spot and cold spot.
- Fogger Mist Maker is used to maintain humidity level according to the condition needed.
- AC Synchronous Motor is used to rotate egg tray for a specific angle during the incubation period.

Project Impact

• The smaller size of the egg incubator house that can put on home anywhere easily. Investigator can observe the incubation process in their house, and also getting the reading from the displayer or website.







BUBBABOOP













BRIEF DESCRIPTION OF THE PROJECT: According to CNN news, many parents are now worried about their children's mental health. As stated in UNICEF's data, they have uncovered a devastating and distorted new normal for the world's children. We would like to proposed our mental health app. Bubbaboop is able to help the new generation specifically members of Generation C who are born from 2016 to the mid 2030s with their mental health development

OBJECTIVES:

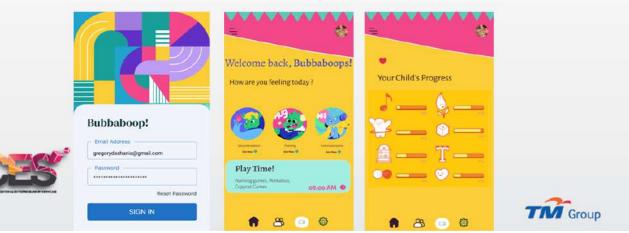
To provide individual attention in developing the mental health of children between the ages of 18 months old to 6 years old

To develop apps that could monitor the mental health for the younger generation To provide job opportunities

Community Name: Children - Malaysian & Non Malaysian Infant: 18 months old to 2 years old

3 years old to 4 years old 5 years old to 6 years old

Description: An app that specifically help the children below the ages of 6 years old with their mental health development. This includes consultations and recording sessions with professionals (psychologist/ psychology graduates), learning and character building activities within the app itself. Our app also has special packages for children born with disabilities because we strongly believe that no child should be left behind





BUDGET FOOD HOUSE

TEAM MEMBERS:

PIRIVEEN RAOO S/O GHANESAN SHALINI A/P NARAYNDRAN SARRVESH A/L ARUMUGAM LEE MING HAN SURAJKARTIK GIRISH PATEL NOR FAUZIANA IBRAHIM (MENTOR)



A Brief Description of the Project

Problem Statement

• Foreigners who are in quarantine still prefer to leave the house with pink bracelet on their hand to buy meals.

• People with low incomes will feel expensive if they often buy food through online.

Objectives

To prepare budget meals for those quarantine people and deliver the meals to their house.

Description of Projects Impact

- Budget meals(<RM5)
 Convenient
 - Care about SOP
 - Delicious
 - Hygienic

Target Community

- Covid patient (Home Quarantine)
 - Poor people
 - Foreign workers

Competitor Analysis

- Food Panda
- Grab Food
- MrSpeedy







CUSTOMER ENGAGEMENT WITH SOCIAL MEDIA INTERACTIVE ADVERTISING AND THEIR PURCHASE INTENTION OF SMES PRODUCTS

PROJECT LEADER: MOHAMMED YOUSAF TEAM MEMBERS :ASSOC. PROF. DR. KOO AH CHOO & DR. MOHD HAFIZUDDIN

ABSTRACT

Digita

This study aims to examine the effect of beliefs, attitudes and behaviours towards Interactive Advertising with Social Media on promoting SMEs products on digital lifestyle in United Arab Emirate (UAE). A quantitative survey is to be explored to determine the factors that influence the use of Online Interactive advertising in different companies dealing with digital lifestyles in UAE and its impact on the business performance. Considering belief, attitude, and behavioral implications and normative norms from customers through social media technology adoption, it is pertinent to get a better understanding of how effective Interactive Advertising is in promoting SMEs products on digital lifestyle via Social Media.

OBJECTIVES

 To investigate the relationship between the customer's belief, attitude, behavior and the brand loyalty, brand image and brand awareness and social media advertising and purchase intention of SMEs products.

2. To examine the mediating effect of social media advertising engagement between the customer's belief, attitude and behaviour and the brand loyalty, brand image and brand awareness, and purchase intention of SMEs products

3. To determine how trust affect social media advertising and purchase intention of SMEs products between companies and their customer in United Arab Emirates.

LIFESTYLE





THEORETICAL FRAMEWORK

Independent Variables (IVs)	Mediating Variable	Dependent Variable (DV)	
Belief Attitude Behaviour Hormative Norms (Identity	Engegement on Social media Interactive eduartising	Purchase Intention	
Brand) 1 Roend Loyalby 2 Drawt mage 3 Brand Awarenees	Trust		

This study employs the Theory of Reasoned Action (TRA) and Theory of Planned Behaviour as the underpinning theories to support the conceptual framework on interactive advertising on social media. This study shall employ survey questionnaire to collect data from a random sample of SMEs operating in the UAE while partial least squares and structural equation modeling will be used as analysis techniques.





DIGITAL ENGAGEMENT STRATEGY FOR AWARENESS PROGRAM

HANAFIZAN HUSSAIN, FCM & NATALYA RUDINA SHAMSUAR, SMD, SMART This project is a joint program between SEDA (Sustainable Energy Development Authority) and MMU (SMD, SMART, FCM, CISDAC)

- A Brief Description of the Project
 - Digital Engagement Strategy for Awareness Program has been hosting a digital engagement strategy (DES) for Malaysian students as part of social innovation (SI) ecosystem in Malaysia. This project is joining program between SEDA the authority of the subject matter and MMU as a technical know-how entity in creativity and content production. This program is aim to increase the awareness on SE landscape in Malaysia. It is hope that the usage of creativity in delivering the intended message through designing poster and video among Malaysian students will be leverage on the strength to attract Malaysian's public on SE through the digital platform.
- Objectives
 - To increase the awareness on Sustainable Energy in Malaysian Society via digital platform
- Community Name
 - Malaysian students (3 categories education primary schools, secondary schools & higher institutions level)
- Description of Projects/ Technologies or Project Impact
 - Using the creative content approach in the digital platform to increase the awareness on Sustainable Energy among Malaysian public. It will impact on the creative industry towards using digital medium as part of the social innovation ecosystem in Malaysia.









FORM RECOGNITION AND OPTICAL CHARACTER RECOGNITION FOR CLAIMS AUTOMATION

Project Leader: Prof. Ir. Dr. Hezerul Abdul Karim Team Members: Prof. Dr. Mohammad Faizal Ahmad Fauzi, CW Khong, Lim Yan Peng Developers: Dr. Nouar AlDahoul, Chia Jason, Over Kam

INTRODUCTION

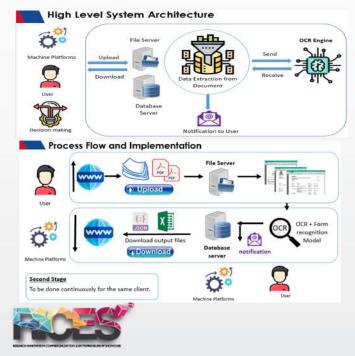
- Document digitization convert physical documents into electronic copies.
- □ It converts printed and handwritten text to digital format.

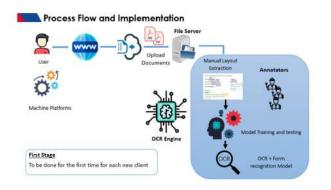
PROBLEM STATEMENT

- Manual document digitization is time consuming and large number of paid manpower are required to do the task.
- Existing automated document digitization platforms and services are expensive and not able to learn from mistakes.
- □ The tables in different forms have various layouts and structures that need to be recognized for further processing.

SOLUTION DESCRIPTION

- □ An Artificial Intelligence (AI)-powered document extraction service can accelerate business processes by automating information extraction.
- □ The Al-powered software read documents (pdf or picture) such as invoice or bills and convert them to useful data for decision making.
- □ To extract digital text via an OCR engine.
- To extract layout and structures of tables via a form recognition engine.





FEATURED RESULTS

KEY FEATURES

- Utilize pretrained model to generalize to new layouts and structures of tables in various forms.
- Train custom model to improve model extraction performance.
- The solution is able to learn from mistakes.
- Error detection and handling module to detect and correct errors.

COMMERCIALIZATION POTENTIAL

- An accurate, robust, and fast solution for information and table layout extraction.
- The proposed solution can help medical insurance companies, restaurants, banks, universities, and hospitals that require digitization of manual forms.

SPECIAL HIGHLIGHT

1 copyright.

Engaging PMCare company in developing the product.





MICROSOFT TEAMS AN EFFECTIVE TOOL FOR FORMATIVE ASSESSMENT

Chandrika Mohd Jayothisa, Rashidah Ahmad, Suhaimi Sarip Faculty of Information Science & Technology (FIST)

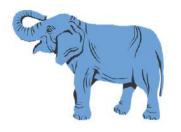
< >	Q, Search	
Activity Chat Teams Assignments Calendar	<section-header></section-header>	Level of Confidence
Gails Files	Lets:// nitrout Strategies Used to Keep Students Engaged Lets:// nitrout Strategies Used to Keep Students Engaged Lets:// nitrout Strategies Strategies Strategies	You're DOING GREATI
	Teaching Methods That Benefit Students The Most For Ineir Learning During Online Class. Wide/Animation Presentation Pennstration/Witeberg Presentation Pop Qut/Polit Presentation Pop Arrow Presentation Presentation Presentation Pop Arrow Presentation Presentation Presentatin Presenta	Take charge of their own learning
BB Apps (?) Help Slide 1 of 1		



MPCEN - Media Project on Conservation Environment & Nature Syed Hasnain Raza (Founder) Student FCM

The Idea is to have various conservation related media projects under one umbrella for saving Wildlife & Nature





The Projects

- Media Labs For Conservation
- Dedicated Wildlife Film Festival
- Wildlife & Nature Content Creator Stock Images/vidoes portal
- Trainings for Wildlife & Conservation
 Journalists & Reporters
- Environmental Journalism News Network
- A Wildlife premiere Web TV





The Innovation

- Money Raised from Film festivals will go to Green & NBS Startups
- Having a Premiere Web TV (Web + App) for wildlife films, series etc.
- Having a stock footage & portfolio Web Service focusing on Wildlife



The Outcomes & Community Service



The top of the lines projects are Film Festival & Web TV for Wildlife Conservation & Awareness, 40% of the spendings will go to conservation of nature in the local communities.







Team leader: Berady Chua Chen Wee Mentor : Nor Fauziana Binti Ibrahim

MR.DOCTOR

Mr.Doctor is a medical application that provides medical services to people who face medical problems

Community Name

especially elderly people

due to time constraints

· People who are sick and stay alone at home

· Suspected or mild COVID-19 patients

· A common condition patients that want

consultation or treatment, but they do not

want to go to hospital due to Covid-19 or

Mr. Doctor app's value proposition/service

- ✓ Professional consultation
- ✔ PCR test for Covid-19
- ✓ Self-quarantine Information
- ✓ Supplement information
- ✓ Nurses to take care
- ✓ Ambulance
- Appointment

Objective

To help patients who have difficulties to physically visit the clinic and to assist those who need medical assistance without leaving the comfort of their homes.







PM TEPI

Title of Innovation Product/Project: PM TEPI

Problem Statement

- Pasar Malam Vendors
 More than 50% vendors is in the high risk category to get the virus
- Decreasing in sales Force to shut down business
- 2. Pasar Malam Visitors
- Long queue due to tight SOP
 Afraid to go to Pasar Malam
- 3. Home Businesses
- No proper platform to sell their food and etc.

Implementation Level -Minimum Viable Product -Schedule to launch by the end of the year. - Schedule to meet key partners and investors - Pitch to FINTECH for funding



Commercial

Potential/Commercialisation/ Publishing Status

- 1. Champion in International Business Innovation Competition
- 2. Honorable mention in Research, Innovation, Commercialisation and Entrepreneurship Showcase 2021 (RICES)
- 3. Compete in Malaysian Technology Exhibition: Covid 19.

4. File for copyright (WIP)

Authenticity/Novelty -PM Virtual Walk provides a real pasar malam environment feels with use of virtual technology. -Our app is using Ai to do prediction and recommendation

-We also have technical features like geolocation, Ai Balance ratio and sentiment analysis.

RCES

Objectives :

1. We "Payung" You

we provide a digital platform and help them to set up their digital "payung"/stall

2. Your Own "Payung"

we are providing a shelter so that they can continue their business at the comfort of their home.

3. "PM Tepi" Us

 the hip word PM Tepi is referring to our assistance services towards the vendors.

Innovation Product/Project Impact

- 1. Providing opportunities for the Pasar Malam vendors to continue their business
- 2. Providing home businesses a reliable platform
- 3. Increase GDP and avoid from increase in vendors losing their businesses.

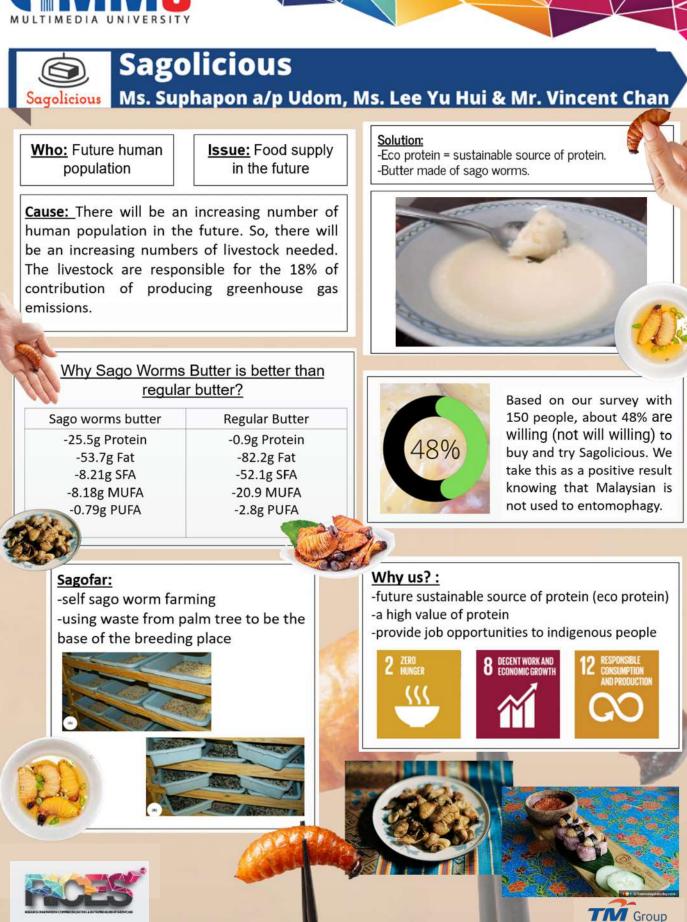
Uses and Applications

- 1. Vendor can now continue selling in the digital platform provided.
- 2. Pasar Malam visitors can continue to enjoy their favourite food by just ordering at the click of their mobile
- 3. Providing 24/7 assistance via chatbot and live agent
- 4. Providing assistance in terms of Food Safety Information System Malaysia (FOSIM) to home businesses (eg: Licensing, food handling and etc)

Group Members/Organisation Name Vincent Chan Maniyanan Sehgar Wan Izyan A' qila Bt Wan Ahmad Faizal Cheah Wei Chee

TTA Group







Sign Language Translate and Learning App

Team Leader : WONG JING HAN 1201200675 Member : CHANG XI LEI 1201200674 LOH JIA HUI 1201202641 LIM SHIH MIN 1201202247 TAN JIN YEN 1201202278 Mentor : Miss Nor Fauziana Binti Ibrahim

- A Brief Description of the Project
- ✓According to the news in 2017 "deaf-mute people have difficulty communicating".
- ✓An app that solve communication barrier of deaf/mute people.
- ✓ Scan function is available to translate sign language into words or audio.
- Capable to translate words or audio into sign language.
- ✓ Available to learn sign language.
- Community Name
- 40000 population deaf people in Malaysia
- People who interested to learn sign language
- People who want to communicate with deaf/mute people

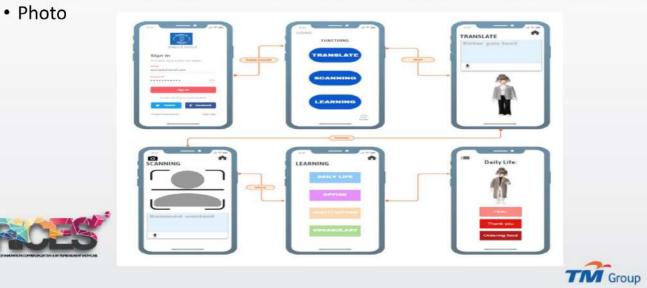
SINGLE YOU



- Description of the Impact of project
- People can learn and understand sign language from "Single Voice"
- Provide opportunity to enhance communication among people and deaf/mute people

Objectives

- To customize for Malaysian, not only English, but also Malay, Tamil and Mandarin.
- Not only to translate sign language but can also translate to audio, words, vice versa
- ✓To learn sign language through the app





STUDENT VOLUNTEER AS A CATALYST FOR SOCIAL INNOVATION

Ts. Dr. Anusuyah Subbarao & Assoc Prof Dr. Chong Chin Wei Faculty of Management, Multimedia University

Recruitment events including seminar / talks and advertisement through social media or flyers was held to create and promote the awareness and provide opportunity for MMU students to register in a portal. This portal stores the students' information including available time, physical capabilities into a database. If NGO or some event planners looking students to help them for better society purposes, they can register themselves as a recruiter in the website. An email will be delivered to all registered students and a link is provided for them to read all the details (nature of events, service expected from volunteers, date and time, transportation arrangement etc) of the events and allow them to confirm their attendance for the events in the website. Students are recommended to share their volunteering experience together with some pictures of event in the website for future volunteers' reference.











>290,000 students graduate annually, but **1 in 5** fresh graduates remain unemployed 6 months after grad. - Talent Corp, 2020

3.2% of the total 5.29 million graduates in 2019 were unemployed

Many fresh graduates are stunningly ill-prepared for the workforce, without realising it

The Changemaker Academy (TCA) is a platform that trains. groom and expose students to all sorts of competitions, but mainly in business idea competitions.TCA is a self-initiative project that focuses on equipping students with entrepreneurial mindsets and experiences. Our movement is supported by our very own Entrepreneur Development Centre (EDC). TCA was also initiated because we want to create more **Studentpreneur** or at least with **entrepreneurial mindsets (EM)**.

Novelty: Prior to preparing the student for competitions, they are trained using The Hustler Board Game that was created by TCA. The Hustler provides the brainstorming experiences and at the same time instils them with the EM. At the end of the game, the team will develop a minimum viable idea to work on.

Over the years we have created many winners, trendsetters and entrepreneurs. We have won from university to international level. Exposing them to competitions also means building a network with the industry that is involved. FOr example, our team managed to pitch in from the CEO of Seng Heng, after our final battle in Ali Baba Get Global Challenge.

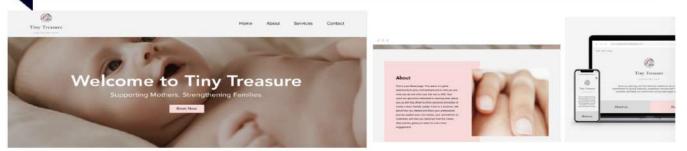












This proposed business idea is based on research done by WHO and KKM Malaysia during Covid-19 pandemic. Many mothers and newborns were unable to receive postnatal care from community health workers, and the majority of mothers did not want to visit a confinement centre during the pandemic. According to WHO, nearly 2 million newborns die during the postnatal period, with 80% of them dying within the first week. As a result, we decide to establish a virtual postnatal care centre.

OUR SERVICE:

- -3 types of packages (28 days , 40 days, tailor-made)
- -specialized professional support through our team of obstetricians, pediatricians, traditional medicine practitioners and lactation consultants
- -24 hours support including transportation-postnatal care meals delivery
- -laundry service-provide baby monitor with screen and sound
- -virtual parental course (physical & mental)
- -childbirth and breathing techniques
- -baby care course -breastfeeding

WHAT MAKE TINY TREASURE SO DIFFFERENT ?

- -proven traditional confinement & modern postnatal
- -balance nutrition which carefully prepared by nutritionists and chef
- -we provide professional care experience
- -tailor-made package for each mother
- -extra support from our team
- -door to door service (when pandemic is under control)
- -affordable price
- -traditional and modern postnatal care methods
- -one stop baby essentials provider
- -smart health band













WASTEWATER TREATMENT SYSTEM WITH TIO2 EMBEDDED 3-D PRINTED STRUCTURE

Clarissa Wu Hui Yana, Evyan Yang Chia-Yan^{*}a, Lau Kam Sheng^b, Chia Chin Hua^b ^a Nilai University; ^b Universiti Kebangsaan Malaysia

Abstract:

With the high population in the world, the current wastewater treatment is challenging with the increasing chemical and biological wastes discarded from household, industrial, agriculture and hospitals. Advanced oxidation process (AOP) is an alternative solution which utilizes the strong oxidative properties of nanoparticles in removing wide range of contaminants. However, the limitation of AOP is the nanoparticles are difficult to separate from liquid system after treatment. This resulted in non-reusable treatment system and increase possibility of toxins remain in the treated water. In this study, Titanium dioxide (TiO₃) is embedded on polymer three-dimensional (3-D) printed structure that acted as a template to hold TiO2 in the wastewater treatment. TiO2 is reactive under UV irradiation and able to oxidize various organic pollutants with the presence of hydroxyl radical. The selection of the shape of the template was based on high surface area, high strength and low viscosity using Meshmixer software. As the Results, spherical shaped of 3-D printed structure has the highest surface area with 40% higher compared with cube-shaped structure. 5% of TiO2 was incorporated in the 3-D printing process based on the viscosity test result of the mixture of printing solution and TiO2 nanoparticles. The photodegradation of methylene blue as the efficiency of the wastewater treatment indicated TiO2 embedded 3-D printed sphere structure achieved 62% of degradation under UV irradiation after 24 hours. The self-built photo reactor with the TiO₂ embedded 3-D printed structure is reusable and this is benefits towards sustainability system.

vascewater may consisted containing neavy metal, inorganic or organic compound neluding organic dyes which are aimed to be emoved in the treatment. In AOP by using fiQ₂, the pollutants can be degraded by tet al., 2021), promoting the production of reactive oxygen species (ROS) such as -OH and O_2 on the surface of TiO₂. The ROS then oxidizes the dye molecules into non-toxic compounds such as carbon dioxide and water



Advantages of TiO2:

- low cost
- non-toxicity
- photo-stable
- chemically stable
- high photocatalytic performance able to degrade most of the pollutants
- such as organic compounds, inorganic
- compounds, heavy metals, dyes, pesticides, cyanide, arsenic and phenols
- Disadvantages of TiO₂:
- difficult to trace back after treatment which result in non-reusability
- increase in overall treatment cost



Methodology:

- Design of 3-D Structures by Using Software (Meshmixer) Draw few 3-D shapes (sphere, cube, prism, hexagonal prism, cylinder) with fixed volume closest to 2680mm³ with element dimension of 1mm and element spacing of 2.2mm Determine surface area and strength. Compare for all the designed shapes and select the 3-D shape with the most suitable properties
- Printing of 3-D Structure Incorporated With

- Add 5% TiO2 in few batches by setting of 1 minute stirring and 1 minute resting for acrylic resin to form printing ink.

- Pour the printing ink onto the resin vat.
- Print sphere and cube structure using Anycubic Photon Series printer,

- Wash the structure with alcohol in ultrasonic bath for 10 minutes after printing. Trim the uncured acrylic resin polymer in a UV chamber (15W)

Results and Discussions:

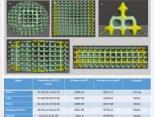
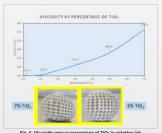
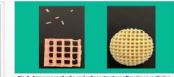


Fig. 3. The appearance, dimension, volume, surface area and strength of designed 3-D models.

Sphere structure is chosen as the printing model because it displayed the highest surface area and strength (as indicated by the green parts in Fig. 3) compared to other structures as estimated in the Meshmixer software.



Printing ink with 7% TiO2 was irregular in shape after printing (Fig. 4). Therefore, 5% TiO2 was selected for printing the structure.



to occur.

Viscosity Test

Measure the viscosity of printing ink with 0%, 1%, 3%, 5% and 7% of TiO2 using Brookfield Viscometer

Model DV-I with 1 minute waiting

Photodegradation of Methylene

Place the printed structure into 50ml

beaker containing 20ml of 0.01g/L methylene blue solution. Place it in

the dark for 1 hour for dark reaction

Record the fluorescence of the

sample is exposed to UV light for 6

hours at 1 hour interval using a

spectrophotometer at 664nm. Take

the

solution before and after

the final reading at 24th hour.

Blue Dye

time for stable reading.

After the stirring process, broken pieces was found for the cubic structure whereas sphere was still in shape after vigorous stirring (Fig. 5). The nature of sphere is less susceptible to breakage as its shape follows the direction of water under stirring condition therefore maximizing its performance in water treatment.

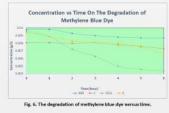


Fig. 6 - Photodegradation of methylene blue indicated that TiO2 in powder form (100% degradation) was more efficient than embedded in 3-D structure (62% degradation). Optimization on the structure can be further improved to increase the surface area for better exposure.

Fig. 2. Phot of TiO. The important criteria of building photoreactor are the size, homogeneity, maximum exposure, the presence of light source and cooling system (Pu et al., 2019). Below are the functions of each part in the photoreactor demonstrated in Fig. 2: FAN: Maintain air circulation and release

MIRROR SHEET: Reflect lights in all direction LIGHT BULB HOLDER: To hold the light bulb UV LIGHT BULB: To provide light source to activate the photocatalyst MAGNETIC STIRRER: To ensure homogeneity of mixture in the treatment.

The proposed separation system by 3-L high in surface area and strength which vas able to withstand mechanical festruction caused by the stirring effect. TO2 nanoparticles was achieved to naximize the photodegradation of MB lye. The UV photoreactor is simple and we regy-saving system. This system can urther modify to be performed shotodegradation under visible light rradiation by doped-TiO2. This system could be applied in wastewater treatment

REFERENCES:

KEPERKINGCS: Fryun, Y., Saliel, K., Cheng, M.Y., Chia, C.H. and Zakaria, S. (2021). Effect of dimensionality of nanosized TiD₂ embedded in regenerator collulose backa as a portable catalyst for reusable decomposition system, <u>Polymers for Advanced Technologies</u>, MI-2020-006, MI-2020-000, MI-200-000, MI-200-000

tem, Belynners for Auswars 395 sey/(doi.org/10.1002/ost.3955 any, YCA, Sarani,Z, Chin, H. C. and Thomas, R. (2017). Bifunctiona generated Cellulose Membrane Containing TiO, Nanoparti des for homostate and the service and the service of the service of the service of the service and the service of the service of the service and the service of the

Evene, Y.C.J. saranuc, v.tim Regenerated CHUIse Membrane Containing TiO, Nanoparticles 1 Absorption and Photosciatykic Decomposition. Seim Malaysiam (4), 437–448. S. Suns, S. Bellock, S. Bulleck, S.

ACKNOWLEDGEMENT

The authors would like to acknowledge the Department of Higher Education, Ministry of Education of Malaysia for the financial funding with the Research Grant FRG5/1/2019/STG07/KUN/02/1.



ACKNOWLEDGEMENT

RICES 2021 Organising Committee

Units related:

All MMU Faculties President's Office VP Marketing & Communication Office Corporate Communications Department Network & Intelligent Campus Ecosystems (NICE) MMU Production Team Multimedia Product Innovation Unit Media Support Unit Facilities Management Department Finance Division Entrepreneur Development Centre (EDC) MMU Staff Development Committee

