

ISBN :



# CONFERENCE PROGRAMS AND ABSTRACT

**ADVANCING SUSTAINABLE SCIENCE AND TECHNOLOGY  
THROUGH EFFECTIVE COLLABORATION**

**OCTOBER 20-21, 2021**

**Palembang, Province of South Sumatera  
Indonesia**

Organized By :



## FOREWORD FROM GENERAL CHAIR 5<sup>th</sup> FIRST 2021 INTERNATIONAL CONFERENCE



Assalamu'alaikum wr wb,

Alhamdulillahirrobbil 'alamin, Thank to the God, almighty, due to His bless and love, we are granted good health and opportunity so that we can meet here in the event of the 5<sup>th</sup> FIRST and the 3<sup>rd</sup> SNAPTEKMAS 2021.

The honorable keynote speakers of the 5<sup>th</sup> FIRST and the 3<sup>rd</sup> SNAPTEKMAS 2021

Dra. Nana Yuliana, MA., Ph.D., as The Indonesian LBBP Ambassador for the Republic of Cuba, concurrently with the Commonwealth of the Bahamas, Jamaica, the Dominican Republic and Haiti

Prof. Ramaraj Boopathy. from U Alcee Fortier Distinguished Service Professor of Biological Sciences At the Nicholls State University, USA

Dr. Ing. Ahmad Taqwa, the Director of State Polytechnic of Sriwijaya.

The honourable keynote speakers, distinguished guests, all participants, ladies and gentlemen,

For the beginning of my speech, let me welcome all of you with my great warm hug. It is a great honor for me that you choose the 5<sup>th</sup> FIRST and the 3<sup>rd</sup> SNAPTEKMAS 2021 as your conference. I am so proud that the authors still become enthusiastic to develop the knowledge although in this pandemic situation. Let us still work hard to support the development of the world through the research, science, and technology in many parts of the knowledge, as what has been purposed by the FIRST conference itself.

In this occasion, I would like proudly to inform you that the 5<sup>th</sup> FIRST and the 3<sup>rd</sup> SNAPTEKMAS 2021 as the forum to share knowledge, to search, to find, and to enlarge the link with other industries and universities has attracted so many authors from abroad, such as from: Politeknik Tun Syed Nasir Syed Ismail; MARA University; Politeknik Mukah Sarawak; University Sultan Zainal Abidin, Terengganu, Malaysia; Politeknik Melaka (PMK) Malaysia; Iloilo Science and Technology University (ISAT-U) Philipina; Politeknik Kota Kinabalu; Universiti Teknologi Malaysia; The National University of Malaysia; National Chin-Yi University of Technology (NCUT); Accounting Research Institute UiTM-Malaysia; Management and Science University Malaysia; AlBaha University, KSA, Saudi Arabia; Politeknik Melaka (PMK), Malaysia; Kuantan Community College, Pahang, Malaysia; Universiti Brunei Darussalam; and Ferdowsi University of Mashhad, Iran.

Welcome to all of the researchers that become the collaborators in our research and community service. It is our great honour to have you as our collaborators and participants in the 5<sup>th</sup> FIRST and the 3<sup>rd</sup> SNAPTEKMAS 2021.

The honourable keynote speakers, distinguished guests, all participants, ladies and gentlemen,

In this chance, I would like to say thank you very much to the Director of State Polytechnic of Sriwijaya for his full support in the development of the Research and Service Community programs. Due to his hard work and his belief to all of the committee so that this event can be held.



In this occasion, I also would like to convey my big thank to all of the keynote speakers, invited guests, all the participants, all reviewers, and all committee of the 5<sup>th</sup> FIRST and the 3<sup>rd</sup> SNAPTEKMAS 2021. Without you all, this event will be nothing. May Allah SWT gives His reward for your sincerity. As the time goes by, it is hoped that our cooperation and coordination in the FIRST and SNAPTEKMAS can be maintained and improved. I hope that you can enjoy this conference and can get a big benefit from this event. I also wish that we can meet again in the forthcoming FISRT ad SNAPTEKMAS

Wassalamu'alaikumwaraahmatullahi wabarakatuh

## FOREWORD FROM DIRECTOR OF STATE POLYTECHNIC OF SRIWIJAYA



The honorable, FIRST 2021 and SNAPTEKMAS 2021 keynote speakers,

Dra. Nana Yuliana, MA., Ph.D., as The Indonesian LBBP Ambassador for the Republic of Cuba, accredited to the Bahamas, Republic of Dominican, Republic of Haiti and Jamaica

Prof. Ramaraj Boopathy., from U Alcee Fortier Distinguished Service Professor of biological sciences at the Nicholls State University, USA

Dr. Ing. Ahmad Taqwa, MT., as Director of Politeknik Negeri Sriwijaya

Assalamualaikum wr wb,

Let us extend our gratitude to Allah SWT, the most gracious, the most merciful. Due to His bless, we can gather here, at the Opening Ceremony of the FIRST 2021 and SNAPTEKMAS 2021

First of all, Please let me deliver my warm welcome to all keynote speakers and all participant of FIRST 2021 and SNAPTEKMAS 2021. It is my great pleasure to meet and see you in this event.

Although, there are so many obstacles that should be faced in the pandemic situation, however, as young generation, we should be optimistic, stay strong and be active in searching and finding the solution. The FIRST 2021 and SNAPTEKMAS 2021 as the DIES of State Polytechnic of Sriwijaya annual event will become one of the media to support those activities. The researchers could share knowledge, find partners, and enlarge the collaboration through this event.

Based on the change in the model of the teaching learning activity that focuses on the MERDEKA BELAJAR, State Polytechnic of Sriwijaya has a big desire in getting acceleration in the internationalization of the institution. One of them by improving the overseas and industrial collaboration, especially in joint research and joint publication. In the beginning of 2021, the research and community service unit in Politeknik Negeri Sriwijaya has launched new schemes of research and community service, namely the Overseas Collaboration Research and Overseas Collaboration Community Service. Thanks to God, those schemes have attracted researchers not only from Asia but also several other countries outside Asia, such as: research and community service collaboration with Al Baha University from Saudi Arabia, with Ferdowsi University of Mashhad from Iran, and with Princess Sumaya University of Technology from Jordan, as well as several other foreign universities.

In this occasion, I also would like to welcome all the researchers that become the collaborators in our new scheme of research and community service. It is our great honour to have you as our collaborators.

The honourable participants,

At this time, State Polytechnic of Sriwijaya has held 5 times of FIRST. FIRST publications from previous conferences have been successfully indexed not only in SCOPUS, but also in WOS. This 5th FIRST seminar will be conjugated with the 3<sup>rd</sup> National Seminar on Community Service SNAPTEKMAS. (National seminar of applied technology for public). All of these are the efforts to improve the quality of Polsri lecturers which significantly have a positive effect on the learning process of Polsri students.

Before ending my speech, I would like to congratulate the participants of The FIRST 2021 and SNAPTEKMAS 2021. May the noble efforts, support, and cooperation of researchers in this conference will continue. Special thanks to the organizer and co-organizer committee of The FIRST 2021 and SNAPTEKMAS 2021 for the hard work and the commitment in realizing this conference. Do maintain the spirit of working in a team and continue to unite in order to display a culture of excellence in the eyes of the country and the world.



With Bismillahirrahmanirrahim, I officiate The FIRST 2021 and SNAPTEKMAS 2021.  
Wassalamu'alaikum warrahmatullahi Wabarakatu

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## KEYNOTE SPEAKER



**Dra. Nana Yuliana, MA., Ph.D.**

The Indonesian LBBP Ambassador for the Republic of Cuba, concurrently with the Commonwealth of the Bahamas, Jamaica, the Dominican Republic and Haiti

Her Excellency Ambassador Nana Yuliana, Ph.D arrived in Havana, Cuba on December, 23rd, 2020 to serve her duties as the Ambassador Extraordinary and Plenipotentiary of the Republic of Indonesia to Republic of Cuba, Commonwealth of Bahamas, Dominican Republic, Republic of Haiti and Jamaica. She was appointed by the President of the Republic of Indonesia on October 19th, 2020. Prior to her position as Ambassador Extraordinary and Plenipotentiary, she was Consul General of the Republic of Indonesia in Houston, Texas, United States of America from 2017 –2020, after she was the Director of Mid-Career Diplomatic School at the Ministry of Foreign Affairs of Indonesia from 2014 – 2017. Her first diplomatic assignment was as First Secretary of Political Affairs at the Embassy of Indonesia in Manila from 2001-2005. From 2008 to 2012, she was the Counsellor of Economic Affairs of the Embassy of Indonesia in Bangkok and Permanent Representative of Indonesia to the United Nations Economic and Social Commission for Asia and Pacific (UNESCAP). She attended several meetings related to Millennium Development Goals (MDGs) or Sustainable Development Goals (SDGs) issues. Her bachelor's degree was English Education from Institute of Teacher's Training in Jakarta, then she pursued her Master Degree in Applied Linguistics for Macquarie University in Sydney, Australia and also International Relations from University of Indonesia in Jakarta, Indonesia. She completed her Doctoral Degree in Development Studies from the University of Santo Tomas, Manila, Philippines in 2006. While serving as a diplomat since 1995, her passion in teaching and learning encourages her as well to share her knowledge and teaches at the University in Jakarta, Indonesia. During her tenure as Consul General, she was very active in promoting Trade, Tourism, Inbound and Outbound Investments and very keen to engage with Universities for cooperation in human capital development.



## KEYNOTE SPEAKER



### Prof. Ramaraj Boopathy

Alcee Fortier Distinguished Service Professor of biological sciences  
at the Nicholls State University, USA

Fulbright Scholar Fulbright Senior Specialist World Class Professor-Government of Indonesia. Honorary Visiting Professor, ITB, Indonesia Alcee Fortier Distinguished Service Professor John Brady Endowed Professor in Biological Sciences Nicholls State University Business Address: Alcee Fortier Distinguished Service Professor John Brady Endowed Professor in Biological Sciences Department of Biological Sciences Nicholls State University Thibodaux **EDUCATION:** B.Sc. Zoology, University of Madras, India; 1979 M.Sc. Environmental Biology, Tamil Nadu Agricultural University, India; 1981 Ph.D. Environmental Biology, University of Madras, India; 1986 **UNIVERSITY RESPONSIBILITIES:** Responsibilities include Teaching Environmental Biotechnology, a Senior and Graduate level course, Marine and Environmental Biology (Graduate Course), Microbiology and Environmental Biology courses. Research interests include Bioremediation of Hazardous Chemicals and Anaerobic Microbiology. Service includes advising students, participate in Departmental and University committees and serving the local and regional communities. Advisor to Masters Program in Marine and Environmental Biology. **PROFESSIONAL EXPERIENCE:** January 2013 – Present: John Brady Endowed Professor in Biological Sciences, Department of Biological Sciences, Nicholls State University, Thibodaux. Teaching, Research, and Service to the University and Community. August 2012 – Present: Alcee Fortier Distinguished Service Professor, Department of Biological Sciences, Nicholls State University, Thibodaux. Teaching, Research, and Service to the University and Community. August 2004 – Present: Distinguished Service Professor, Department of Biological Sciences, Nicholls State University, Thibodaux. Teaching, Research, and Service to the University and Community. **MAJOR AREAS OF RESEARCH INTERESTS:** Anaerobic digestion, Composting, Biodegradation of hazardous chemicals. Antibiotic resistant bacteria and Antibiotic resistance genes in the aquatic ecosystem. Isolation and identification of novel bacteria. Anaerobic degradation of explosive chemicals with particular reference to sulfate reducing bacteria. Design and development of biological reactor systems. Microbial immobilization of

heavy metals and radionuclides. Alcohol production from agricultural residues. Water quality in the wetlands. Alternative to sugarcane burning, Biological control of termites. Organic ways to control land loss and coastal restoration.

## KEYNOTE SPEAKER



**Dr. Ing. Ahmad Taqwa, MT.**

Director of Politeknik Negeri Sriwijaya Indonesia

Director of State Polytechnic of Sriwijaya, other than that, he is still active at Head of The Research and Publication Commission Forum Director of State Polytechnical In Indonesia, Founder of The Online Journalist Board (IWO) Sumsel, Chairman of The Advisory Board of UKM Nusantara Palembang and Assessor of Higher Accreditation Board. **EDUCATION:** Diplom Ingenieur Electrical Engineering HTL, Ingenieurschule Beider Basel, Switzerland; 1994, Magister (2005) and Doctoral (2010) at Electrical Engineering, Bandung Institute of Technology, Indonesia. **RESEARCH:** Head of Research Assignment “Mini PLTS Periodic Cooling System to Overcome Overheating in Palembang City” (2019), Member of The Research Assignment “Effects of Sea Salt Dust Collection on Output Loss and Solar Panel Output Efficiency” (2020), and Head of Research Assignment “Design and Build of Wireless Sensor Network Prototype Detection Of Landslides Based on IOT and LORA” (2020). **DEDICATION:** “The Design and Evaluation of Virus Scan in The E-Mail System in SMA N 5 Palembang” (2018), Assignment Service “Utilization of WSN Technology in Parking Air Monitoring Foundation SMP Harapan Mulia Palembang” (2019), Development of Teaching Materials with Interactive Multimedia with Education Game for Harapan Mulia Junior High School Students” (2020). **AWARD:** Certificate In Participating In The 200 Hour Advanced Technical Teacher Training awarded by FONTYS and PEDC (1998), Satyalancana Karya Satya X Year 2011 And Satyalancana Karya Satya XX Year 2017 by The President of The Republic of Indonesia. **WORKSHOP:** Seminar and Focus Group Discussion Forum The Rector of Indonesia “Economic Stability In The Vuca Area”, Ujung Pandang (2020), Workshop on Using Integrated Resources Information System Applications For Lecturers of State Polytechnical Polytechnic, Palembang (2019) And Workshop of Learning Methodology of Polsri Lecturers and Outside Education Domicile (PDD) as a Source Person, Palembang (2019).



**RUNDOWN**  
**The 5<sup>th</sup> FIRST 2021 INTERNATIONAL CONFERENCE**  
**(FORUM IN RESEARCH SCIENCE AND TECHNOLOGY)**  
**SNAPTEKMAS (Seminar Nasional Aplikasi Teknologi pada Masyarakat) 2021**  
**Palembang, South Sumatera, Indonesia**  
**Thursday, October 21, 20201**

		Thursday, October 21, 20201			
No.	Session	Person in Charge	Time Allotment (WIB)	Liaison Officer	
1.	Registration	Event Section Committee	07.00 – 08.00	Doeslohal Djumrianti, S.E.MIS., Ph.D	
2.	The Opening Ceremony				
3.	Do'a				
4.	Indonesian National Anthem				
5.	Chair Report Speech	Event Section Committee	08.00 – 09.00		
6.	Speech and Opening Remarks by Director of State Polytechnic of Srijijaya				
7.	Souvenirs Gift, Group Photos				
PLENARY SESSION					
No.	Keynote Speaker	Affiliation	Time Allotment (WIB)	Moderator	Liaison Officer
1.	Dra. Nana Yuliana, MA., Ph.D.	The Indonesian LBBP Ambassador for the Republic of Cuba, concurrently with the Commonwealth of the Bahamas, Jamaica, the Dominican Republic and Haiti	09.00 – 10.00	Tiur Simanjuntak M.Pd.	Doeslohal Djumrianti, S.E.MIS., Ph.D
2.	Prof. Ramaraj Boopathy	Alcee Fortier Distinguished Service Professor of biological sciences at the Nicholls State University, USA	10.00 – 11.00	Prof. Hasan Basri	Dr. Nyayu Latifah Husni, M.T.
3..	Dr. Ing. Ahmad Taqwa, MT.	Director of Politeknik Negeri Srijijaya, Indonesia	11.00 – 12.00	Jaksen M. Amin, M.Si.	Dr. Martha Aznury, S.Pd., M.Si.

**PARALLEL SESSION**

No.	Theme	Room	Time	Moderator	Articles
1.	TRACK 1 (Engineering and Science)	1	13.00 – 16.00	Dr. Eng Tresna Dewi, M.Eng./ Ika Sulianti, ST, MT	15
2.	TRACK 1 (Engineering and Science)	2	13.00 – 16.00	Dr. Martha Aznury, M.Si./ Indah Purnamasari, M.Eng.	14
3.	TRACK 1 (Engineering and Science)	3	13.00 – 16.00	Fatahul Arifin, M.Eng, Ph.d./ Dr. Indrayani, S.T., M.T.	13
4.	TRACK 2 (Computer Science, Computer Engineering, Information System, Informatics Management)	4	13.00 – 16.00	Rika Sadariawati, M.Si./ M.Miftakul Amin, S.Kom., M.Eng	13
5.	TRACK 2 (Computer Science, Computer Engineering, Information System, Informatics Management)	5	13.00 – 16.00	Dr. Nyayu Latifah H, MT./ Lindawati, S.T., M.TI	12
6.	TRACK 3 (Social Science)	6	13.00 – 16.00	Doeslohah Djumrianti, S.E.MIS., Ph.D/ Dr. Marieska Lupikawati	13
7.	TRACK 3 (Social Science)	7	13.00 – 16.00	Dr. Sari Lestari ZR/ Dr. Rita Martini	14
8.	SNAPTEKMAS 1	8	13.00 – 16.00	Yumi Oklarina, ST, MT/ Mouland Irwadi, SE. M.Si.	15
9.	SNAPTEKMAS 2	9	13.00 – 16.00	Leni Novianti, M.Kom./ Maivi Kusnandar, M.Kom	15
10	SNAPTEKMAS 3	10	13.00 – 16.00	M Husni Mubarak, M.Si./ Martinus Mujur, ST, MT	15
11	SNAPTEKMAS 4	10	13.00 – 16.00	Dr. Ade Silvia H, MT./ M. Sopian Soim, ST, MT	13

### CLOSING SESSION

Event	Time	Room
<ul style="list-style-type: none"><li>- Closing Ceremony</li><li>- Announcement of:<ol style="list-style-type: none"><li>1. Best Paper FIRST IC 2021</li><li>2. Best Paper SNAPTEKMAS 2021</li><li>3. Best Presenter FIRST IC 2021</li><li>4. Best Presenter SNAPTEKMAS 2021</li></ol></li><li>- Quiz Online</li></ul>	16.00– 17.00	Main Room



### TRACK 3 (Social Science)

ROOM : 6  
 TIME : Thursday, 21 October, 2021/ 13.00 - 16.30  
 ARTICLES : 13  
 MODERATOR : Doeslohal Djumrianti, S.E.MIS., Ph.D/ Dr. Marieska  
 Lupikawati

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	3847	Ayu Chotibah, Bainil Yulina, Desi Apriyanty, Evada Dewata, Pridson Mandiangan	THE INNOVATION OF SOUTH SUMATERA TRADITIONAL BATIK E-COMMERCE APPLICATIONS	State Polytechnic of Sriwijaya
2	13.10-13.20	3683	M. Thoyib, Riza Wahyudi, Firmansyah, Darul Amri	THE ANALYSIS OF COST QUALITY ON PRODUCTIVITY OF IRON RAILING PRODUCTS IN SMALL AND MEDIUM BUSINESS IN PALEMBANG	State Polytechnic of Srwiwijaya
3	13.20-13.30	3757/3756	Nelly Masnila, Firmansyah, Jovan Febriantoko, Riana Mayasari, Jamaliah Said	Quality of Financial Reporting and Impact of GGG Implementation: Study on Local Government in Indonesia	State Polytechnic of Sriwijaya
4	13.30-13.40	3796	Evi Agustina Sari, Sri Gustiani, Yusri, Tiur Simanjuntak	An Error Analysis of English Sentence Construction in Writing Subject Made by the Students of the English Department at Sriwijaya State Polytechnics	State Polytechnic of Sriwijaya
5	13.40-13.50	3827	Edwin Frymaruwah, Farah Aida Ahmad Nadzri, Periansya, Evada Dewata	DISCLOSURE OF SUSTAINABLE PERFORMANCE IN HIGHER EDUCATION IN INDONESIA	State Polytechnic of Sriwijaya, UiTM
6	13.50-14.00	3976	Hendra Hadiwijaya Febrianty Rezanía Agramanisti Azdy	Improvement of LPKA Class 1 Palembang Electronic Dashboard with Field Performance Monitoring	Palcomtech Polytechnic, STMIK PalComTech
7	14.00-14.10	3853/4034	Neneng Miskiyah, Purwati, Yulia Pebrianti, Keti Purnamasari, Nyimas Miftahul Jannah,	OPTIMIZATION OF INCOME PARAMETERS OF SONGKET CRAFTSMEN ON KOPERASI SONGKET PALEMBANG	State Polytechnic of Sriwijaya

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# The Factors Affecting Food Delivery Application Users Shopping Routine Behavior during the Covid-19 Pandemic

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## ABSTRACT

The purpose of this study is to evaluate the influence of variables that affect the shopping routines of food delivery application users during the Covid-19 pandemic. Food Delivery Application refers to application based deliver services that make the customer easier consume food from the restaurant. Data collection was carried out in the third quarter of 2021 and this research obtained 117 respondents who met the criteria required for this study, using the purposive sampling technique. The data collected were analyzed using the technique of Partial Least Squares Structural Equation Modeling. Based on the results of data processing, it shows that Price Advantage, Trust, Interface Issues are significant and have a positive effect on the Shopping Routines of Food Delivery Application users. The implication of these findings is Food Delivery Application providers should improve and or maintain the business policy regarding the price, trust and interface of the application. For instance, by giving more price advantages, increasing the service receiver trust and improving interface of the applications.

**Keywords:** Restaurant, Food Delivery Application, Shopping Routine, Covid-19.

## 1. INTRODUCTION

Restaurant is providing food and beverage services business, which is an important contributor in the tourism industry [1]–[3]. Food purchasing process at the restaurant can be done directly on the spot or can use the food delivery application. Food Delivery Application refers to application based deliver services that make the customer easier consume food from the restaurant. During the Covid-19 pandemic, the use of food delivery application has increased. Based on data from the socio demographic survey of the Covid-19 pandemic impact results, conducted by Statistic Indonesia in 2020[4], 9 out of 10 respondent carry out online shopping activities. Furthermore, the survey also provides information that there is an increase in food shopping activities.

The increase in the shopping routine of food delivery application users during the Covid-19 pandemic was caused by various rationale or reason. The rationale

behind a behavior can be a possible reason for and a possible reason against [5]. Based on previous research, price advantage and trust are the possible reason for doing shopping routine, while interface is a reason against to [6]. The increase in the routine shopping for food using the delivery application, in one side creates positive conditions in restoring the economic disruption caused by Covid-19, on the other side, it also raises concerns over the environmental impacts of tourism that may occur, namely over ordering and food waste [6], hence based on previous research, other factors that are come to a concern, affect the shopping routine of food delivery users application is morality or moral norm [6][7][8][9]. Moral Norm represent the feeling of guilt that food delivery application users have if the food they ordered was not consumed and wasted [7]; interface issues related to the food delivery application functionality [10][11]; Trust is strong belief in reliability, safety, correctness, strength capability[11]; price

advantages is competitive advantage in terms of price obtained by consumer of service receiver [12]; and shopping routine is the tendency of consumer to buy more than food needed, which creates the possibility of food waste [6][13].

Considering the possible impact of the increasing shopping routine behavior during the Covid-19 pandemic and the existence of various association between variables according to previous research, become a reason to carry out this research, and the purpose of this research is to evaluate the factors that affect the shopping routines of food delivery application users during the Covid-19 pandemic. This study examines this research question: are there any influences of price advantages, trust, interfaces, and moral norms on shopping routines during Covid-19 pandemic?.

**2. METHODOLOGY**

This study uses a quantitative descriptive method in testing the relationship between variables, using the Partial Least Square-Structural Equation Modeling (PLS-SEM) technique. The reason for using SEM is SEM is an analytical technique to confirm further in order to determine whether a particular model is valid or not. The evaluation of PLS-SEM model consist of 2 evaluations, namely by evaluating the model (evaluating the outer model) and evaluating the structural model (evaluating the inner model). The evaluation of outer model includes the value of outer loading, average variance extracted (AVE), and composite reliability (CR), and the evaluation of inner model includes the value of path coefficients, and R-square (R2) [14]–[16].

The population of this study were users of the food delivery application in Palembang, the population is unknown, since there were limitations in terms of time, hence for a research, refer to statistical requirement, the appropriate sample size in the study can be between 30 to 500[17]. In this study, the sample size used was 117 respondents, which was successfully collected through efforts to distribute as many questionnaires as possible during the Covid-19 pandemic, the third quarter of 2021.

**3. RESULT AND DISCUSSION**

**3.1. Descriptive Statistics**

Output Frequency Distribution Table of Frequency Table for gender, age and frequency of Food Delivery Applications users for the research framework or model is shown in this section. From the data processing, the frequency distribution table of the respondents demographic variables is generated as follows:

**Table 1 Gender**

Gender	Frequency	Percentage
Male	29	24,8
Female	88	75,2
Total	117	100,0

Source: Data Processing, 2021

Regarding the gender of the respondents, based on the results of the observation it is described that there are 88 female respondents (75,2%), and the remaining 29 respondents are male. it can be concluded that almost three quarters of the respondents are women.

**Table 2. Age**

Age	Frequency	Percentage
18	23	19,7
19	38	32,5
20	21	17,9
21	7	6,0
22	12	10,3
23	6	5,1
24	3	2,6
25	1	0,9
29	2	1,7
30	1	0,9
32	1	0,9
33	1	0,9
54	1	0,9
Total	117	100,0

Source: Data Processing, 2021

In term of respondent’s age category, it was concluded that the age of the respondent spread out following a normal distribution that skewed to the right with ages between 18 and 54. The most respondents (32%) were in the age of 19 years old.

**Table 3. Use Frequency**

Use Frequency	Frequency	Percentage
1 time	0	0,0
2 times	15	12,8
3 times	16	13,7
More than 3 times	86	73,5
Total	117	100,0

Source: Data Processing, 2021

The using frequency of food delivery application by majority of respondents, as many as 86 respondents (73,5%),

**3.2. Uji Validitas dan Reliabilitas**

Validity testing was conducted to determine the correlation between each question item (indicator) and the total score of the question (factor). The indicator is said to be valid when the correlation ( $r$ ) > 0.50. In addition to testing reliability, the reliability coefficient used is Cronbach's Alpha. Cronbach's Alpha is a reliability coefficient calculated by the Alpha formula made by Cronbach. This test was conducted to determine the reliability (level of confidence) between the question items (all indicators) to the total score of all (factors). All indicators are said to be reliable when Cronbach's Alpha Value > 0.60. From the output, it is found that the correlation between the Research Variables and their respective indicators is given in the following table.

**Table 4.** The results of the validity and reliability testing of the constructs between the researches variables and their indicators

Research Variables	Indicator	correlation	Cronbach's Alpha
Price Advantage (PA)	PA1	0,756	$\alpha = 0,756$
	PA2	0,847	
	PA3	0,859	
Trust (TR)	TR1	0,876	$\alpha = 0,816$
	TR2	0,901	
	TR3	0,792	
Interface Issues (IF)	IF1	0,828	$\alpha = 0,766$
	IF2	0,816	
	IF3	0,841	
Norma Moral (NM)	NM1	0,941	$\alpha = 0,934$
	NM2	0,964	
	NM3	0,922	
Shopping Routine (SR)	SR1	0,938	$\alpha = 0,771$
	SR2	0,879	

Source: Data Processing, 2021

From these results, the correlation coefficient of all indicators is greater than 0.50, hence the validity test can be concluded that all indicators are said to be valid (accurate). In addition, all indicators have a correlation greater than 0.70, its mean all indicators in this case can be said to be ideal. In addition, Cronbach's alpha values for Price Advantage (PA), Trust (TR), Interface Issues (IF), Moral Norms (MN), and Shopping Routine (SR) were 0.756, 0.816, 0.766, 0.934, and 0.771 respectively. Hence this reliability test can be concluded that all indicators are said to be reliable (trustworthy). Thus, testing the validity and reliability of the constructs of all indicators is concluded to be valid and reliable.

**3.3. Goodness of Fit**

**Table 5.** Overall Goodness of Fit for Final SEM

Goodness of Fit	Result	Model Requirement	Testing Decision
RMSEA	0,079	RMSEA < 0,08 adalah <i>good fit</i> RMSEA < 0,05 adalah <i>close fit</i>	<i>good fit</i>
GFI	0,887	GFI ≥ 0,90 adalah <i>good fit</i> 0,80 ≤ GFI ≤ 0,90 adalah <i>marginal fit</i>	<i>marginal fit</i>
AGFI	0,828	0 ≤ AGFI ≤ 1 PGFI semakin besar, semakin baik.	<i>good fit</i>
CFI	0,939	CFI > 0,90 adalah <i>good fit</i> 0,80 ≤ CFI ≤ 0,90 adalah <i>marginal fit</i>	<i>good fit</i>
TLI	0,919	TLI > 0,90 adalah <i>good fit</i> 0,80 ≤ TLI ≤ 0,90 adalah <i>marginal fit</i>	<i>good fit</i>
CMIN/DF	1,729	CMIN/DF < 2,00 adalah <i>good fit</i>	<i>good fit</i>

Source: Data Processing, 2021

From the overall suitability test of the model, all the test results that show the model are of good value, so it can be concluded that the SEM model is good. Table 5 shows that the factor loading, VE, CR, and Cronbach's Alpha values are very satisfactory for the modified SEM model. All factor loadings are still above the cut-off value (0.50). The reliability obtained shows good results because all variance extracted (VE) values are greater than 0.50, construct reliability (CR) is above 0.70, and Cronbach's Alpha is above 0.60 (cut-off values). Table 5 provides a summary of the score information from factor loading, VE, CR, and Cronbach's Alpha for the modified SEM model. This test was held to test discriminant validity, with good results on CR. Table 6 shows the factor loading, CR, and Cronbach's alpha values for construct investigations

**Table 6.** The Validity and Reliability Measurements for all Constructs

Item Description	Factor Loading	VE	CR	Cronbach's Alpha
PA1	0.557	0.548	0.779	0.756
PA2	0.752			
PA3	0.876			
TR1	0.832	0.617	0.826	0.819
TR2	0.869			
TR3	0.635			
IF1	0.802	0.537	0.776	0.766
IF2	0.692			
IF3	0.699			
NM1	0.883	0.833	0.937	0.934
NM2	0.982			
NM3	0.869			
SR1	0.778	0.636	0.778	0.771
SR3	0.817			

Source: Data Processing, 2021

**3.4. Interpretation of Path Coefficients in SEM**

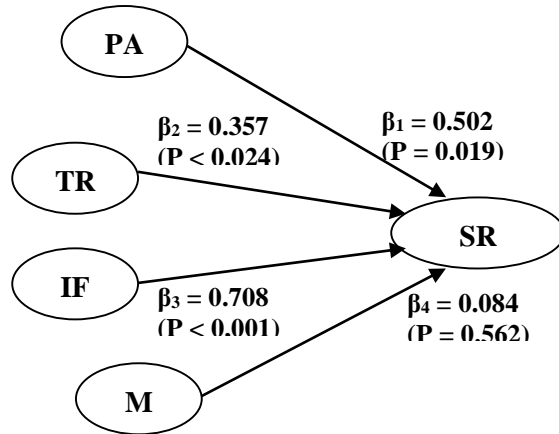
The result of the coefficient of determination (R-Square, R2) is 0.498; meaning that the diversity of the SR constructs that can be explained by the PA, TR, IF, and MN constructs together is 49.8% and the remaining 50.2% is explained by other constructs that have not been included in the SEM model. The results of the hypothesis shown in Table 7 show the results of hypothesis testing. Table 7 shows the results of hypothesis testing in the direct relationship of several constructs. Of the 3 hypotheses formulated, all hypotheses are significant with p-value < 0.05. In addition, the largest estimate (0.708) is given between IF and SR

**Table 7.** The Relationship Path among the Constructs.

Hypothesized Paths	Estimate	C.R.	P	Result
H1: PA ->SR	0.502	2.350	0.019**	Significant
H2: TR ->SR	0.357	2.254	0.024**	Significant
H3: IF ->SR	0.708	4.975	<0.001***	Significant
H4: MN ->SR	0.084	0.580	0.562	Not Significant

Note: \*\*\*, \*\*, and \* denote the two-tail statistical significance at 1%, 5%, and 10% respectivel

Source: Data Processing, 2021



**Figure 1.** Path Coefficient

$$SR = 0.502PA + 0.357TR + 0.708IF + 0.084MN + e \quad (1)$$

In the structural equation, the test obtained the following results and conclusions:

It is obtained a direct effect of Price Advantage (PA) which is significant on Shopping Routine (SR) of 0.502. The higher the Price Advantage value, the higher the Shopping Routine value; conversely, the lower the Price Advantage value, the lower the Shopping Routine value. It is also obtained a direct effect of Trust (PA) which is significant on Shopping Routine (SR) of 0.357. The higher the Trust value, the higher the Shopping Routine value; conversely, the lower the Trust value, the lower the Shopping Routine value.

Furthermore, it is obtained that the direct effect of Interface Issues (IF) which is significant on Shopping Routine (SR) is 0.708. The higher the Interface Issues value, the higher the Shopping Routine value; conversely, the lower the Interface Issues value, the lower the Shopping Routine value. There is no significant direct effect of Moral Norms (NM) on Shopping Routine (SR). The higher/lower the Moral Norm value, it does not affect the Shopping Routine value.

The results found in this study support previous research that price advantage and trust have a positive and significant effect on routine shopping for more food than needed according to the results of Sharma et.al's research. [6]. Likewise, for interface problems, the results have a positive and significant effect on shopping routines, these results indicate that the current interface is no longer an obstacle for application users, this phenomenon can be explained by the social changes that occur, where today's society is a smart society that interacts intense with technology. Meanwhile, morality or moral norms are contrary to previous research where the moral attitude towards perceived supervision is one of the determinants of shopping routines [8], [9]

#### 4. CONCLUSION

Previously, as has been stated, the purpose of this study is to evaluate the effect of variables that affect the shopping routine behavior of food delivery application users during the Covid-19 pandemic. Based on the results obtained, it can be concluded that three of the four independent variables are significant and in accordance with the theory, namely Price Advantage, Trust, significant and positive influence and Interface Issues on the Shopping Routines of Food Delivery Application users. Meanwhile, the moral norm variable (indicators of guilt on others who do not have enough food, guilt about the environment, and bad feelings when throwing away the purchased food) has no effect on the tendency of consumers to buy more food than the needed food. allows for the creation of food waste. The implication of this finding is that a special strategy is needed to encourage restaurant service users through food delivery applications, because the impact of shopping routines without moral control can lead to negative consequences for the environment and the people who live in it. Furthermore, the limitations of this research can be used as an agenda for future work, such as the addition of different variables, the use of different analytical techniques and different respondent areas and a larger number of samples.

#### AUTHORS' CONTRIBUTIONS

Sari Lestari Zainal Ridho design the research, Habsah Binti Haji Mohamad Sabli, and Kartini Binti Che Ibrahim supervised the research project, Hadi Jauhari helped supervised the research project, Alditia Detmuliati and Alfitriani collected the data, Anggita Prameswari Pracena Putri discussed the introduction of research. All authors provided feedback and helped shape the research, analysis and manuscript.

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