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# Examining User Acceptance of MOOCs: The Role of Openness, Task Technology Fit, and Self-Efficacy

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*Abstract*— This study has purpose to understand the main psychological processes in technology acceptance of massive open online courses (MOOCs). We proposed extending expectation confirmation model (ECM) model with openness, task technology fit, and self-efficacy. A sample of 210 high school and university students participated as respondents in this study. After the sample data passed the validity and reliability checking, the research hypotheses were examined with correlation analysis to prove the relationship among variables and causal effect analysis using structural equation analysis (SEM) to prove the causal effect among the variables. The results revealed that: openness and task technology fit have significantly direct effect on perceived usefulness and then on continue intention to use MOOCs; self-efficacy and task technology fit have significantly direct effect on satisfaction and then on continue intention; and the last, task technology fit has significantly direct effect on confirmation and then on perceived usefulness and satisfaction. This significantly factors of the study can contribute to people who interest on the development of MOOCs leaning model through keeping the factors to gain continue intention to use MOOCs.

Keywords— MOOCs, ECM, openness, task technology fit, self-efficacy

### I. INTRODUCTION

Massive Open Online Courses (MOOCs) are growing rapidly and being used by various groups to spread knowledge. MOOCs is an open education to people around the world. MOOCs is innovations that always feature novelty in online learning with an ever-increasing virtual technologybased learning environment.

MOOC has videos with a duration of 5-10 minutes. Some video lectures add quizzes and have subtitles. In addition to recordings, the instructor can serve live video sessions. The students' understanding of course concepts can be tested using instructional activities given. In most cases, MOOCs do not require students to buy books, the reading materials can be accessed online or sometimes instructors offer them in person. Ratings in MOOCs are based on evaluations via autorated multiple-choice questions or through peer-reviewed assessments that are assessed by peers according to established principles. The interaction between students, and students and instructors use "forum". The forum contains general discussions, subject-specific discussions, and course feedback [1].

MOOCs are still being developed in terms of student enrollment, university participation and variety of courses, especially for MSMEs. Currently, MOOCs have been successfully implemented and developed rapidly.

The researchers emphasize that it is important to check students' adoption in using MOOC. They have also investigated students' readiness to adopt MOOCs, as MOOCs become interesting for students in their learning.

This study has purpose to recognize whether and to what degree the factors including openness, task technology fit, and self-efficacy effect on the confirmation, perceived usefulness, and satisfaction in using the MOOCs learning system with the result that the user intent to continue using the system. We propose a research model to integrate the Expectation Confirmation Model (ECM) model with openness, task technology fit, and self-efficacy factors and examine the factors to testify their significantly effect in the model.

ECM is a suitable model that predicts key factors of Information System (IS) success. In particular, ECM proposes two main drivers of "confirmation" performance and perceived usefulness, which together are related to customer satisfaction and, in turn, the sustained intention to use IS [2], [3], [4], [5], [6], [7]. There are few MOOC adoption studies employing task technology fit [8], [9] and openness [2]. Openness is interesting variable in e-learning studies but still limited in MOOC adoption study. Selfefficacy is also an important variable on e-learning adoption [3], [10], [11], [7] and this study employs the variable to integrate with ECM model. Based on these reviews, this study adds openness along with task technology fit and selfefficacy on ECM model to examine their significantly direct effect on the variables on the model including perceived usefulness, confirmation, and satisfaction.

This study has contribution on disclosing factors predisposed users to adopt MOOCs learning model.

This paper is organized as proposed model and hypotheses in Section 2, which provides a brief overview of ECM, openness, task technology fit, and self-efficacy factors and their relations to support the proposed model in the study. The research methodology is resented in Section 3, followed by the result and discussion in section 4. The most relevant findings obtained from this study are presented and discussed in this section. The section 5 draws conclusions and summarize the contributions of this study.

### Π **PROPOSED MODEL AND HYPOTHESES**

Reviewing several literatures on user acceptance of MOOCs, e-learning, and other related studies, resulted the proposed model and hypotheses discussed in this chapter.

### **Openness on Perceived Usefulness**

According to Khaled [2], openness is defined as freedom of students to access the educational content. Khaled conduct study on understanding the MOOCs continuance intention and revealed that openness has direct effect on perceived usefulness. The study also confirms that openness has direct effect on continue Intention [2]. Hence, we propose:

### H1: Openness has positive effect on continue intention to use MOOC's systems

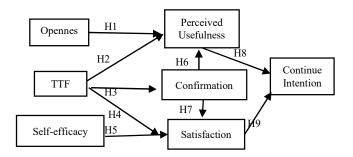


Fig. 1. Proposed Model

### Task technology fit on Perceived Usefulness, **Confirmation, and Satisfaction**

Adapted by reference [8], Task technology fit (TTF) is the ability of MOOCs systems with reference to the task must be carried out by the student. The reference [9] studied on MOQS adoption and they have result on TTF has positive direct on perceived usefulness (PU). Task technology fit also has positive effect on Satisfaction [9] and perceived usef lness [8]. Therefore, we proposed:

# H2: ask technology fit has positive effect on perceived usefulness

### H3: Task technology fit has positive effect on confirmation

### H4: Task technology fit has positive effect on satisfaction

### Self-Efficacy -> Satisfaction

Self-efficacy is the satisfied of student in accessing academic content of MOOCs by using computers [3]. Several research conducted studies on e-learning and stated that self-efficacy has direct effect on satisfaction [3], [10], [11], [7]. Hence, we propose:

H5: self-efficacy has positive effect on satisfaction

### **Confirmation on Satisfaction and perceived usefulness**

Adapted from [12], Satisfaction was defined as "the end user's affective attitude towards a MOOCs application.

Several studies showed the significantly effect of Confirmation on Satisfaction [2], [3], [4], [5], [6], [7]). Khaled [2] and Day [4] conducted research on user acceptance of MOOCs, Prasetya [3], Prasetya [5], and Widiantoro [7] examine the adoption of eLearning systems on young people, and Prasetya [6] studied on consumer acceptance on e-marketplace.

Furthermore, other studies on MOOCs and e-learning adoption stated that confirmation has direct effect on PU ([2], [6], [7]) and Continue Intention [3].

### herefore, we proposed:

7 16: confirmation has positive effect on satisfaction H7: confirmation has positive effect on perceived usefulness

Perceived Usefulness -> C4 tinue Intention Adapted from Harnadi [13], received usefulness (PU) is the extent to which student believes that using MOOCs systems will help them to achieve their gains. PU has significantly direct effect on continue intention to use MOOC's systems ([2], [5], [6], [13], [14], [15], [16], [17]). Hence, we propose: H8: perceived usefulness has positive effect on continue intention to use MOOC's systems.

### Satisfaction -> Continue Intention

Satisfaction is important variable on adoption technology staties. Adapted from Prasetya [6], Satisfaction was defined as a positive emotional state resulting from the assessment of the use of MOOCs, and continuance intention to use the MOOCs systems. Several studies stated that satisfaction has positive effect on Continue Intention ([2], [3], [6], [14], [15], [17], [18], [19]). Meanwhile Day [10] and Widiantoro [7] proved that satisfaction has effect on continue intention to use e-learning through mediating variable, attitude. Therefore, we proposed:

### H9: satisfaction has positive effect on continue intention to use MOOC's systems

### III. METHODOLOGY

This study employed purposive sampling method with 203 sampled data from respondents including senior high school and university students. The questionnaires were distributed to respondents using google-form in one month and obtained 210 sample. Seven sample data is an outlier's data and must be removed.

The descriptive and causal effect analysis were conducted using SmartPLS software to authenticate the research hypotheses. The demography of respondents was revealed to show the characteristic of respondents in the study.

The question ires were examined by validity and reliability analyses to ensure the validity and reliability of the research instrument. Furthermore, the correlation analysis must be conducted by path coefficient analysis to examine the relationship among variables on the proposed model.

Finally, causal effect analysis using SEM was employed to test the significant effect of the relation among variables in the model. The analyses of the model were discussed to get the findings and contributions of the study.

# IV. FINDINGS AND DISCUSSION

### A. Demographic of Respondents

The demographic of respondents can be seen in table 1. Table 1 shows that the most of respondent are in 20-29 years old (59%), male (60%) and a diploma-undergraduate education level (76%).

ABLE	I

DEMOGRAPHICS OF RESPONDENS

Total (n=203)					
Age:					
<20	37	18%			
20-29	120	59%			
30-39	24	12%			
>=40	22	11%			
Gender:					
Male	123	60%			
Female	80	40%			
Education:					
<high school<="" td=""><td>14</td><td>7%</td></high>	14	7%			
Diploma - Undergraduate	155	76%			
Master-Doctor	33	17%			

. Measurement Model Test

### 1. Convergent validity

TABLE II.

The proposed model in Figure 1 was tested with SmartPLS and the resulted values of the outer loading was shown in Table 2.

THE LOADING FACTOR VALUE TO TEST THE VALIDITY OF

	CI	Conf	OP	PU	SE	Sat	TTF
CI1	<mark>0</mark> .930						
CI2	<mark>0</mark> .946						
CI3	<mark>0</mark> .928						
Conf1		<mark>0</mark> .894					
Conf2		<mark>0</mark> .897					
Conf3		<mark>0</mark> .888					
OP1			<mark>0</mark> .855				
OP2			0.823				
OP3			0.840				
5 U1				<mark>0</mark> .890			
PU2				<mark>0</mark> .892			
PU3				0.829			
SE1					<mark>0</mark> .882		
SE2					<mark>0</mark> .857		
SE3					<mark>0</mark> .888		
Sat1						<mark>0</mark> .875	
Sat2						0.866	
Sat3						0.905	
TTF1							0.866
TTF2							0.877
TTF3							0.824

Note: CL = continue intention; Conf = confirmation; OP = openness; PU = perceived usefulness; SE = self-efficacy; Sat = Satisfaction; and TTF = task technology fit

Table 2 explains and value of each indicator loading outer value is greater than 0.7. Meanwhile, the result of the Average Variance Extracted (AVE) value is shown in Table 3.

Table 5 shows that all variables have an AVE value more than 0.5. The results on Table 2 and 3 show that the model fulfills the requirements for convergent validity.

TABLE III. AVERAGE VARIANCE EXTRACTED (AVE) VALUE

12. Verage Variance Extracted (AVE)				
0.874				
0.797				
0.705				
0.758				
0.767				
0.778				
0.733				

## Discriminant Validity

Testing for discriminant validity used the Fornell-Lacker criterion. The result was seen in Table 4.

TABLE IV.	FORNELL-LARCKER CRITERION VALUES
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	CI	Conf	OP	PU	SE	Sat	TTF
CI	0.935						
Conf	<mark>0</mark> .597	0.893					
OP	0.529	<mark>0</mark> .609	0.840				
PU	<mark>0</mark> .654	<mark>0</mark> .758	<mark>0</mark> .647	<mark>0</mark> .871			
SE	0.636	0.665	<mark>0</mark> .631	<mark>0</mark> .710	<mark>0</mark> .876		
Sat	<mark>0</mark> .736	<mark>0</mark> .790	0.623	<mark>0</mark> .751	<mark>0</mark> .760	0.882	
TTF	0.612	<mark>0</mark> .637	<mark>0</mark> .604	<mark>0</mark> .647	<mark>0</mark> .659	<mark>0</mark> .680	<mark>0</mark> .856

Based on Table 4, each variable is compared with each other and the greatest value is in the comparison between the same variables. Consequently, the model is qualified for discriminant validity.

### 3. Reliability Test

Reliability is the consistency or stability of an indicator. The reliability is reviewed using the value of composite reliability and Cronbach's alpha. The composite reliability and cronbach's alpha values of each construct are shown in Table 5.

	Cronbach's Alpha	Composite Reliability
CI	0.928	0.954
Conf	0.873	0.922
OP	0.790	0.877
PU	0.840	0.904
SE	0.848	0.908
Sat	0.857	0.913
TTF	0.817	0.892

Table 5 explains that all constructs have a composite reliability value more than 0.7, it means that the variable is reliable. C. Utructural Model Test

Testing the structural model was conducted to analyze the structural relationship between the measured variables and their latent variables. The test involves path coefficients and coefficient of determination tests.

### 1. The path coefficients Test

The path coefficients are a test to determine a hypothesis is accepted or not. The path coefficients values were seen in Table 6.

	CI	Conf	OP	PU	SE	Sat	TTF
CI							
Conf				<mark>0</mark> .499		<mark>0</mark> .374	
OP				0.226			
PU	0.221						
SE						0.310	
Sat	0.571						
TTF		0.637		0.191		0.141	

Table 6 and Fig. 2 show that the values of path coefficient more than 0.1 for the correlation of perceived usefulness (0.211) and satisfaction (0.571) on continue intention. The other correlations also show the same results: openness has correlation to perceived usefulness (0.226); task technology fit has correlation to perceived usefulness (0.191), confirmation (0.637), and satisfaction (0.141); self-efficacy has correlation on satisfaction (0.310); confirmation has correlation (0.374).

### 2. Coefficient of Determination Test

The purpose of examining the coefficient of determination (R-Square) is to find out the accuracy of the prediction of proposed model.

prediction of proposed model. The coefficient of determination describes how much the ability of independent variable to describe the variance of the latent variable. The interpretation of coefficient of determination can be classified into 3 levels including small, medium or large effect. The coefficient of determination of the four factors used in the model was seen in Table 7.

	R Square	R Square Adjusted
CI	0.566	0.562
Conf	0.406	0.403
PU	0.648	0.643
Sat	0.734	0.730

TABLE VII. R SQUARE AND R SQUARE ADJUSTED VALUES

The determination values on Table 7 are more than 0.26 or 26% (large/strong effect size)

### 3. Hypothesis Test

The hypothesis was tested by comparing p-values with a significance level of 5% (two-tailed test). SmartPLS was used to calculate mean, standard deviation, t-statistics, and p-values. The structural validity of hypothesis was checked to determine the accepted or rejected of hypothesis by comparing the p-value with the level of significance. The hypothesis will be accepted of p-value is below 5%,

The hypothesis will be accepted if p-value is below 5%, and rejected if p-value is above 5%.

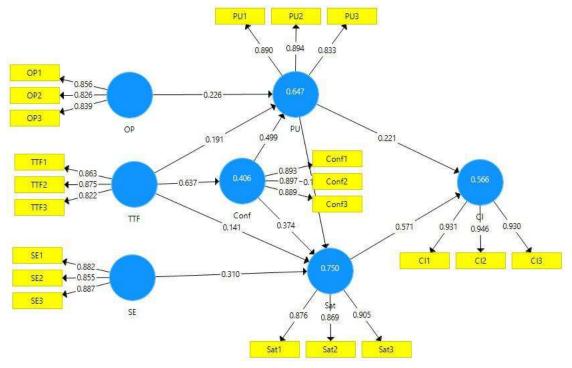


Fig. 2. Final model.

	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	P Values	Hypothesis
Conf - > PU	0.496	0.499	0.068	0.000	Accepted
2f-	<mark>0</mark> .454	0.374	0.067	0.000	Accepted
OP -> PU	0.228	0.226	0.074	0.002	Accepted
PU -> CI	0.233	0.221	0.103	0.024	Accepted
2>	0.354	0.310	0.067	<mark>0</mark> .000	Accepted
Sat -> CI	0.562	0.571	0.093	0.000	Accepted
TTF -> Conf	<b>0</b> .637	0.637	0.040	0.000	Accepted
TTF -> PU	<mark>0</mark> .193	0.191	0.073	<mark>0</mark> .008	Accepted
TTF -> Sat	0.158	0.141	0.070	0.025	Accepted

TABLE VIII. HYPOTHESIS TEST RESULTS

Table 8 shows that the all of the hypotheses are support, (p value is 0.05 or above). Fig.2 shows the final model.

### D. Discussion

The most of respondent of the study are young people, male and student in a diploma and undergraduate degree. The questionnaires as instrument to collect data was passed convergent validity, discriminant validity, and reliability tests.

Structural model test has conducted to analyze the causal effect among variables in the model and the results are discussed in the following paragraphs.

The final model on Figure 2, all of the hypotheses are accepted. Firstly, openness and task technology have significantly direct effect on perceived usefulness. The result regarding to the relationship of openness to perceived usefulness is suitable to the research conducted by Khaled [2], and the relationship of perceived usefulness to continue intention is consistent to several studies conducted by [5], [6], [13], [14], [15], [16], [17].

Secondly, task technology fit has significantly direct effect on perceived usefulness, confirmation, and satisfaction. The results are consistent to studies conducted by Wu and Chen [8]. Confirmation also has significantly direct effect on perceived usefulness and satisfaction. The significantly result regarding to the relationship of confirmation on satisfaction is also in accordance with the study conducted by [2], [3], [4], [5], [6], [7]). The significantly result regarding to the relationship of subsciences is suitable with the studies conducted by [2], [6], [7].

Finally, the result of self-efficacy has significantly effect on satisfaction is in accordance with the study conducted by [3], [10], [11], [7]. Furthermore, the result regarding to satisfaction has significantly direct effect on continue intention is corresponding to the study by [2], [3], [6], [7], [14], [15], [17], [18], [19].

The implication of this study in the theory side is the extending ECM model to utilize on MOOCs adoption study. This study revealed that openness, task technology fit, and self-efficacy are reasonable variables to be integrated to ECM model. The implications on practice are related to the contribution of this study on their significantly relation among variables to work up people who are interested in MOOC. The behavioral perception of people using the MOOCs system could be boosted by the positive openness, task technology fit, and their self-efficacy in using MOOCs.

### V. CONCLUSION

This study revealed several findings regard to behavioral research of technology adoption. The 302 data of the research express that most of respondents are young, male, and students of high school and university. The variables associated with ECM verify the significantly effect among variables in the model and establish that perceived usefulness and satisfaction have significantly direct effect on continue intention in using MOOCs system. The others variables including openness, task technology fit, and self-efficacy represent the significantly effect on perceived usefulness, confirmation, and satisfaction. Openness and ask technology fit have significantly direct effect on perceived usefulness. Task technology fit has significantly direct effect on confirmation. Finally, self-efficacy and task technology fit has significantly direct effect on satisfaction. The significantly effect of variables in the research contribute to people and institution who have interest on MOOCs development. They can use the behavioral perception related to the variables in this MOOCs research naming positive openness, task technology fit, self-efficacy, perceived usefulness, confirmation, and satisfaction to increase people adoption of the system.

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