

Contribution of the Internet Uses to Student Morale: Study in High School

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Abstract— The trend of using the Internet as an information center continues to develop in this era. Various pros and cons regarding the use of the Internet are also still one topic that continue to be debated. We designed this study measured the contribution of the Internet use to moral behavior. This study involved 196 students selected by purposive random sampling technique. The instrument used was a Likert scale model. We analyzed data findings using RASCH analysis and simple linear regression analysis. Rasch analysis results show the items on both instruments have a very good quality. The results of the analysis of the contribution of the use of the Internet to moral behavior show that the variable of Internet use (X) influences the moral variable (Y). This means that by increasing the use of the Internet that can improve student morale. The findings of this study can be an important input for the academic community and can be an initial basis for further research.

Keyword: KOSONG

I. INTRODUCTION

The Internet was introduced to the world community in October 1972 at a demonstration at the International Computer Communication Conference (ICCC) [1]. Since then the Internet has continued to experience rapid development [1-3]. The development of the current information age causes humans to be increasingly inseparable from the Internet. It is known that the Internet plays a very important role in all aspects of human life [4-7]. The presence of the internet as a medium of information and communication is increasingly accepted and needed by the world community today [1, 8-10]. Today the internet is the most widely used source of information for people to find the information they need [4, 11, 12]. The internet in the information age has established itself as an information center that can be accessed from various places without being limited by space [4, 13, 14]. Using the internet to meet needs as a source of information because it is easy, fast, precise, inexpensive and accurate [4, 15, 16].

It is undeniable that the internet brings so much convenience to its users, various access to information and entertainment from all over the world can be done through just one click [1]. One study shows that the use of the internet can increase effectiveness in learning and improve academic achievement [4]. Another study of Airlangga Surabaya Faculty of Economics students showed that 93.6% of respondents enjoyed using the internet in the learning process while 6.4% of respondents did not enjoy the internet [17]. But behind the various conveniences and positive benefits that can be got from the internet, the internet in fact also brings various kinds of negative impacts for its users [1, 18-27]. Some negative effects, the most worried is the damage to the morale of its users [1].

Nowadays even internet users put aside moral and ethical values [23, 28, 29]. However, in the social, ethical and moral order is very necessary to avoid shifts and conflicts [23]. The other side of the weakness of the internet is the immoral items that are so easy to access [23, 30]. Other studies have identified that the shift in values in life is the impact of social change in a global society supported by advances in information and communication technology [31]

II. METHOD

This research is a quantitative descriptive study of X and XI students of SMA Negeri in Padang City, a sample of 196 people, who were selected using the Purposive Random Sampling technique. Data was collected through two questionnaires: (1) moral instruments, and (2) instruments of internet use. The instrument used was a Likert scale model, with five answer choices. The RASCH model analysis results for moral measurements show that the item reliability score is 0.99, meaning that the quality of items for moral measurement is very good. Besides that, the sensitivity value of the person's response pattern +1.02 logic (INFIT MNSQ) and the sensitivity value of the person answer pattern +1.02 logic (OUTFIT

MNSQ) show that it is still in the ideal range ($+0.5 > \text{MNSQ} < +1.5$). While the RASCH model analysis for measuring Internet usage shows that the item reliability score is 0.99, meaning that the quality of the items for measuring Internet use is very good. Besides that, the sensitivity value of the person answer pattern +1.05 logic (INFIT MNSQ) and the sensitivity value of the person answer pattern +1.01 logic (OUTFIT MNSQ) show that it is still in the ideal range ($+0.5 > \text{MNSQ} < +1.5$) [32-36]. This shows that the items on both instruments are of very good quality for the conditions of measurement carried out. The data on the contribution of the use of the Internet to student morale is processed through simple linear regression analysis.

III. RESULTS AND DISCUSSION

The results of the analysis of the contribution of the use of the internet to moral behavior can be seen in Table 1.

TABLE I. RESULTS OF SIMPLE LINEAR REGRESSION ANALYSIS AND SIGNIFICANCE (X) OF (Y)

Model	R	R Square	Sig.
X.Y	0.743	0.549	0.000

Based on the analysis of the table above there is a significance value of 0.000 which states that it is smaller than 0.05 ($0.000 < 0.05$), so it can be concluded that the internet use variable (X) influences the moral variable (Y). Besides that the R value is 0.743, this shows the regression coefficient between internet use and morals. It can be seen the R Square value of 0.549, meaning that the use of the internet (X) contributes to the moral (Y) of students by 54.9%, while the remaining 45.1% is influenced by other variables that cannot be explained in this writing study. Using the internet can predict over 50% of student morale, meaning that by increasing positive internet usage can improve student morale. Further to see the regression equation can be seen in Table 2 below.

TABLE II. REGRESSION EQUATIONS AND THE SIGNIFICANCE OF X WITH Y

	Unstandardized Coefficients	
	B	Std. Error
(Constant)	16.960	4.263
Penggunaan Internet	0.830	0.054

In Table 2 above, the constant value (a) is 16,960, while the value of internet usage (b) is 0.830. so the regression equation becomes: $\hat{Y} = 16,960 + 0.830X$. This regression formula shows that each increase of one point in internet usage is accompanied by an increase of 0.830 students. The regression coefficient is positive, so it can be stated that the influence of the variable internet use (X) on the moral (Y) of students is positive, which means that an increase in internet use will cause an increase in student morale.

The study also provides an overview regarding the results of the analysis of the sub-variable contribution of internet use to student morale which can be seen in Table 3.

TABLE III. SUB-VARIABLE CONTRIBUTIONS OF INTERNET USAGE ON STUDENTS' MORALS

Sub-variable Anxiety	R	R Square	Sig.
Good Information	0.397	0.153	0.000
Skill Enhancement	0.216	0.042	0.002
Communication	0.292	0.080	0.000
E-book reading	0.599	0.356	0.000
Protecting Porn Sites	0.506	0.252	0.000

Based on the analysis of the table above there is a significance value of 0,000 for the Good Information (1), Communication (2), Reading E-book (4) sub-variables, Protecting Porn Sites (5) which states that it is smaller than 0.05 ($0.000 < 0.05$), whereas for the Skill Improvement sub-variable (2) it is still at a significance level or still smaller than 0.05, which is 0.002, so it can be concluded that all sub-variables of internet use (X) affect the moral variable (Y). Besides that, the R values for all sub-variables are 0.397, 0.216, 0.292, 0.599, and 0.506, this indicates the regression coefficient between internet use and morals. Furthermore, it can be seen the value of R Square in all sub-variables one to five are 0.153, 0.042, 0.080, 0.356, and 0.252. This means that the use of the internet (X) which most contributes to student morale (Y) is the 4th sub-variable (reading E-books) by 35.6%, while others are below that. So it can be stated that the 4th sub-variable (reading e-books) has a considerable influence on student morale.

III. CONCLUSION

Rasch analysis results show the items on both instruments have a very good quality. The results of the analysis of the contribution of the use of the internet to moral behavior show that the variable of internet use (X) influences the moral variable (Y). This means that by increasing the use of the internet that can improve student morale. The academic community, parents and wider readers can utilize the findings of this study to understand that the use of the internet has not only negative effects. But also positive. This study can preliminary data for further researchers.

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