

28. Analysis of Application of the UTAUT Model on Behavior of Use of Electronic Medical Records in RSUD Prof Dr Margono Soekarjo Purwokerto

by Budi Aji

Submission date: 29-May-2023 01:35PM (UTC+0700)

Submission ID: 2104364210

File name: Medical_Records_in_RSUD_Prof_Dr_Margono_Soekarjo_Purwokerto.pdf (394.46K)

Word count: 5017

Character count: 27844



Analysis Of Application Of The UTAUT Model On Behavior Of Use Of Electronic Medical Records In Margono Soekarjo Purwokerto

Rizki Maulana Tsani^{*}, Wiwiek Rabiatal Adawiyah², Budi Aji³

¹* Jenderal Soedirman University, kikitsaniii30@gmail.com, Indonesia

² Jenderal Soedirman University, wiwiek.adawiyah@unsoed.ac.id, Indonesia

³ Jenderal Soedirman University, budi.aji57@gmail.com, Indonesia

*Rizki Maulana Tsani

ABSTRACT

Medical records are an important tool for documenting patients' progress. The use of electronic medical records is an effort to effectively manage patient condition data, support diagnosis and therapy decisions and improve patient safety. Prof. Dr. Margono Soekarjo Purwokerto General Hospital is a hospital that has implemented an electronic medical record system. One of the models that can assess the acceptance of an electronic system is Unified Theory of Acceptance and Use of Technology (UTAUT). UTAUT combines the successful features of eight theories of technology acceptance. UTAUT consists of 4 constructs, namely performance expectancy (PE), effort expectancy (EE), social influence (SI) and facilitating conditions (FC). This study aims to determine the behavior of doctors' use of the application of electronic medical records as a supporter of patient development documentation at Margono Soekarjo General Hospital, Purwokerto.

This research is a quantitative research with a cross sectional research design. Technique sampling used is random sampling with the slovin formula obtained 49 respondents. Data collection by using a questionnaire. Data analysis in this study used the SEM-PLS analysis technique. The results of this study prove that all UTAUT variables affect usage behavior with an R² PE value of 22.68%; EE 45.61%; SI 7.03%; and FC 23.3%, with a total R² value of 88.61%. The GoF value is 0.5777, so it can be concluded that the construct in the UTAUT model has an influence of 88.61% on the behavior of using electronic medical records in Prof. Dr. Margono Soekarjo General Hospital, Purwokerto.

Keywords: Electronic Medical Record, UTAUT, Performance Expectancy (PE), Effort Expectancy (EE), Social Influence (SI) and Facilitating Condition (FC), Usage Behavior (UB)

1. Introduction

Information and communication technology is currently developing rapidly. This technological development also occurs in the health sector, including SIM-RS (Putra, 2017). This system is set up to handle the entire General Hospital management process starting from diagnostic services, actions

for patients, medical report pharmacies, pharmacy warehouses, administration to management control (Afiana, 2019). One part of the SIM-RS is an electronic medical record. Electronic medical records (EMR) are useful for electronic documentation, drug prescribing, medical test requests, health care reminder management, and more. The use of electronic medical records can significantly reduce the workload of doctors and medical errors (Aldrich, 2010). EMR keep abreast of developments of needs and technology for the hospital, for it is an example of a well-adapted hospital. At Prof. Dr. Margono Soekarjo General Hospital, Purwokerto, all doctors have been required to use electronic medical records since 2015. The inpatient installation of Prof. Dr. Margono General Hospital has implemented EMR with an Integrated Patient Progress Record (IPPR) so that doctors do not need to manually write down the progress of inpatients every day.

RME has the potential to increase hospital efficiency and effectiveness and support integrated patient care (Scott 2007). There are several organizations that fail in implementing RME. Many systems development projects have failed to produce useful systems (Davis, 1989). If adopting applications and advanced technology is focused on features that are more difficult for users (Holden, 2010). As a result, low usage rates, resistance, abandonment of the use of RME and demand for alternative methods (Kim *et al.*, 2016). Based on research by Hatton (2012), the adoption of electronic medical records currently only reaches an average of 50%, which means that RME is not optimally utilized for its functions and features to manage services and is used only for hospital administrative and financial needs.

The decision to use information systems is in the hands of management, but the successful use of an information system depends on its use and acceptance each individual user (Setiawan, 2018). User behavior has a role in determining the success of the implementation of information systems. However, it is still not getting more attention in the development and evaluation of information systems. To produce a maximum evaluation, a technology acceptance method is needed, namely the UTAUT method (Unified Theory of Acceptance and Use of Technology) (Williams, *et al.*, 2005).

UTAUT is a model that combines several models of human behavior that aims to analyze user acceptance of the application of information technology (Kim, *et al.*, 2016). UTAUT as 4 main constructs that affect the acceptance and behavior of technology users, namely: performance expectancy (PE), effort expectancy (EE), social influence (SE), and facilitating conditions (FC) (Venkatesh, *et al.* 2003). In this study, we analyze the factors that influence the intention of physician users to use an electronic medical record system that makes patient medical information easily accessible. Therefore, based on the explanation above, research on the effect of the application of the UTAUT model on the behavior of using electronic medical records in Prof. Dr. Margono General Hospital, Purwokerto is very much needed.

2. Literature Review

The literature review that will be discussed in this paper is regarding the electronic medical record and the construct of the UTAUT model in the study.

2.1. Electronic Medical Records

Electronic medical record is a system of organizing medical records starting from recording as long as patients get medical services, organizing, storing and issuing medical record files from storage places (Handiwidjojo, 2015). Electronic medical record is every record, statement or interpretation made by doctors and other health workers in the context of diagnosis and treatment of patients that

is entered and stored in electronic (digital) storage through a computerized system (Risdiyanty, 2019). Through RME, health services can improve service quality, increase patient satisfaction, and accelerate data access, especially in making clinical decisions for patients (Bilimoria, 2007).

2.2. UTAUT

UTAUT (Unified Theory of Acceptance and Use of Technology) is a model that combines several models of human behavior that aims to analyze user acceptance of the application of information technology (Prasetyo, 2018). UTAUT where this model explains behavioral intention by suggesting four predictive factors, namely *performance expectancy (PE)*, *effort expectancy (EE)*, *social influence (SI)*, and *facilitating condition (FC)* (Shiferaw, 2019).

2.2.1. Performance Expectancy (PE)

Performance Expectancy defined as "the degree to which an individual believes that using the system will help him or her to achieve gains in job performance". PE is described as an important factor influencing behavioral intention to use technology (Gagnon et al., 2014; Kalavani et al., 2018). PE can be measured through indicators of 'system usability' and 'relative advantage' (Davis, 1989; Moore and Benbasat, 1991).

2.2.2. Effort Expectancy (EE)

Effort Expectancy is defined as the level of user convenience that will be felt when using an information system. The three constructs of the EE model are *perceived ease of use (TAM)*, *complexity (MPCU)* and *ease of use (IDT)* (Venkatesh et al., 2003). Several studies indicate that EE influences users' intention to use technology (Becker, 2016; Shiferaw, 2019).

2.2.3. Social Influence (SI)

Social Influence is the level of influence of others in the work environment in an effort to ensure the use of information systems. Social influence as a direct determinant of behavioral intention is constructed from subjective norm (TRA, TAM2, TPB/DTPB and C-TAMTPB), social factors (MPCU) and image (IDT) (Venkatesh et al., 2003). Relevant studies show that social influence has a strong impact on the intentions and attitudes of users to accept technology (Chiu & Tsai, 2014; Guo et al., 2012; Rasmi et al., 2018).

2.2.4. Facilitating conditions (FC)

Facilitating conditions is the extent to which individuals believe that the organizational and technical infrastructure exists to support the use of the system. This definition is deduced from three different constructs, namely: *perceived behavioral control (TPB/DTPB, C-TAMTPB)*, *facilitating conditions (MPCU)* and *compatibility (IDT)* (Venkatesh et al., 2003). Another relevant study conducted on technology acceptance shows that facilitating conditions are determinants of technology use behavior (Boontarig et al., 2012; Phichitchaisopa, 2013).

2.3. Usage Behaviour

Usage Behavior that is behavior of users who will use a system in the future (Venkatesh *et al*, 2003). Actual System Usage is a real condition of using the system. Conceptualized in the form of measuring the frequency and duration of technology use (Henry, 2011). Someone will be satisfied using the system if they believe that the system is easy to use and will increase their productivity, which is reflected in the real conditions of use (Auliya, 2018). using information systems. However, if the resulting perception is negative, the user will reject the information system (Joshi, 1991). Indicators of the acceptance of the information system can be seen through investigations of the constructs used in the study, in this study compiled using the construct from UTAUT (Jogiyanto, 2008):

Based on various explanations regarding previous research variables, it can be determined ²⁶ the research framework as shown in Figure 1.

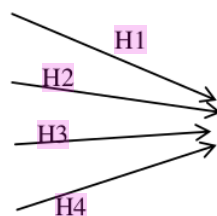


Figure 1. Framework of thought

3. Research Methodology

The research methodology that will be discussed in this paper consist of research design, and instrument analysis.

3.1 Research Design

¹⁸ This research is a quantitative research, with a cross sectional research design. The population used in this study were specialist doctors at RSUD Margono Soekarjo Purwokerto with a sample obtained from the slovin formula as many as 49 respondents. Samples were taken using the techniquerandom sampling. Collecting data used by using a questionnaire distributed to doctors who were respondents in this study. Measurements were carried out with a scale Likert (summated rating), which is a widely used scale by asking respondents to mark the degree of agreement according to or disagree with each ³³ a series of questions about the stimulus object (Malhotra, 2009). Data analyzed by analysis Structural Equation Modeling Partial Least Square (SEM-PLS) using SmartPLS version 3.2.3. PLS is able to describe direct unmeasured variables (latent variables) and is measured using indicators. PLS is widely used for information systems research that aims to investigate technology adoption (Ghozali, 2015).

3.2 Instrument Analysis

The statistical method used to test the conceptual hypothesis is SEM-³⁵S. In SEM there are two types of models that are formed, namely the measurement model and the measurement model(outer model) and structural models (inner model). Performance Expectancy (PE) has three indicators,

Effort Expectancy (EE) has 5 indicators, Social Influence (SI) has 4 indicators, Facilitating Conditions (FC) has 4 indicators and Usage Behavior (UB) has 6 indicators.

3.2.1 Measurement Model Testing (Outer Model)

Evaluation of outer model used to see the relationship between latent variables and their indicators or its variables manifest (measurement models). To evaluate outer model used testing of convergent validity, discriminant validity and reliability

3.2.1.1 Convergent Validity

Convergent Validity related to the principle that indicators of a construct should be highly correlated. Convergent validity is tested with software PLS can be seen from the value of outer loading for each construct indicator, as for assessing convergent validity score outer loading must be more than 0.5-0.6 is considered sufficient, whereas if it is more than 0.7 then it is said to be high, and the value of average variance extracted (AVE) and value communality must be greater than 0.5 (Siswoyo, 2017).

3.2.1.2 Discriminant Validity

Discriminant validity of the reflective model was evaluated through cross loading, then compared the AVE value with the square of the correlation value between constructs (or comparing the square root of the AVE with the correlation between constructs). The measure of cross loading is to compare the correlation of the indicator with its construct and constructs from other blocks. If the correlation between the indicator and its construct is higher than the correlation with other block constructs, this indicates that the construct predicts the size of their block better than other blocks (Siswoyo, 2017).

3.2.1.3 Reliability Test

Reliability test is used to measure a questionnaire which is an indicator of a variable. Reliability testing was carried out using Cronbach Alpha. The Cronbach Alpha coefficient more than 0.6, it indicates the questionnaire that's used is reliable (Priyatno, 2011).

3.2.2. Fit Test of Combination Model Evaluation (All Model)

Fit test of the entire combined model (fit test of combination model) is a fit test to validate the model as a whole, using the value of Goodness of Fit (GoF). GoF is a single measure used to validate the combined performance of the measurement model and the structural model obtained from the root of the mean value communality multiplied by the root of the mean value of R-square. GoF values range from 0-1 with an interpretation of 0.1 (small GoF); 0.25 (moderate GoF); and 0.36 (substantial GoF) (Siswoyo, 2017).

3.2.3. Structural Model Testing (Inner Model)

The structural model is used to see the relationship between the constructs in the study and their significance values. The structural model can be tested by using the coefficient value path and t-value. The structural path coefficient can show how much influence the independent variable has on the dependent variable. The significance value between paths can be seen in the t statistics column in the table. The value is considered related if it has a value above 1.96. (Siswoyo, 2017).

4. Results

The results of the calculation of the entire model using SmartPLS software are as follows:

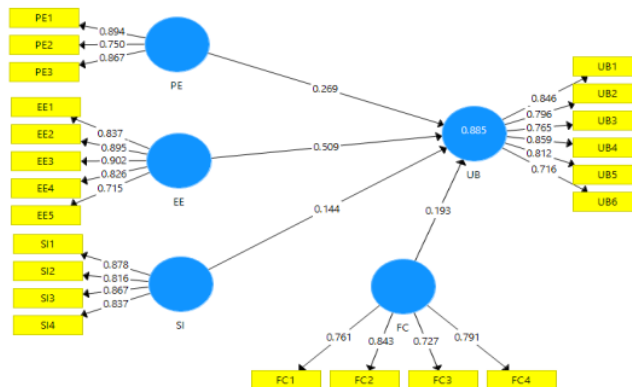


Figure 2. Path Diagram of the Complete Standardized Coefficient Model

4.1 Convergent validity

Based on the test results using SmartPLS software, explained that the value of outerloading for each indicator regarding EE, FC, PE, SI, and UB has a value of > 0.7 which means that all indicators are declared to have good validity in explaining the latent variables. While the AVE value and value communality above for each variable latent exceeds the specified limit of 0.5 (Ghozali, 2015) which means all variables latent has good validity.

Table 1. AVE

	AVE	Communality
EE	0.702	0.702
FC	0.611	0.611
PE	0.705	0.705
SI	0.722	0.722
UB	0.64	0.64

4.2 Discriminant validity

Cross loading factor score of each latent construct for the corresponding indicator is higher than the other constructs, so it can be concluded that the indicators used to measure the latent variable have met the requirements. The AVE root value must be higher than the correlation between constructs and other constructs or the AVE value must be higher than the square of the correlation between constructs (Siswoyo, 2017). The comparison of the AVE root value with the correlation of each latent variable is presented as follows:

Table 2. Root AVE comparison with Latent Variable Correlation

Variable	AVE Root	Correlation Between Latent Var.				
		EE	FC	PE	SI	UB
EE	0.838	1				
FC	0.782	0.562	1			
PE	0.840	0.788	0.688	1		
SI	0.850	0.462	0.178	0.278	1	
UB	0.800	0.896	0.689	0.843	0.488	1

Table 2 shows that the AVE root value of each variable is higher than the correlation value between latent variables. Based on the description above, the size of cross loading factor as well as the comparison of the AVE roots with the correlation between the latent variables have met the requirements, so it can be concluded that the requirements discriminant validity on the variable has been met.

4.3 Reliability Test

Reliability test using Composite Reliability (CR). In table 3, the value of Cronbach's alpha and composite reliability for each latent variable exceeds 0.7 (Siswoyo, 2017) so that the model is declared to have high reliability.

Table 3. Composite Reliability

	Alpha Cronbach	Composite Reliability
EE	0.892	0.921
FC	0.789	0.862
PE	0.796	0.877
SI	0.872	0.912
UB	0.887	0.914

4.4. Evaluation of Fit Test of Combination Model (All Model)

Based on table 4, it is known that the value of Goodness of Fit (GoF) which is obtained from the product of the value of communality and R-square of 0.5664. The GoF value of 0.5664 according to Siswoyo (2017) is quite substantial, so it can be concluded that the results of the model fit test goodness of fit already substantial.

Table 4. Results of UB's GoF

	Communality	R Square
UB Variable	0.64	0.885
Multiplication	0.5664	
GoF value	0.5664	

Source: Data processed using software Smart PLS

4.5. Structural Model Testing (Inner Model)

The hypothesis is tested with the coefficient value path and t-value which is presented as follows:

Table 5. Structural Path Coefficient Values and Hypothesis Significance Test

Influence	Original Sample (O)	T Statistics (O/STERR)	p-Value
PE -> UB (H1)	0.269	2.526	0.012
EE -> UB (H2)	0.509	5.510	0.000

SI -> UB (H3)	0.144	2.662	0.008
FC -> UB (H4)	0.193	2.660	0.008

Source: Data processed using software Smart PLS

Based on table 5, the path coefficient values of PE, EE, SI and FC are obtained for UB. Thus, the structural equation model is obtained as follows:

$$UB = 0.269PE + 0.509EE + 0.144SI + 0.193FC + \dots \quad (1)$$

From the equation, it can be seen that the structural path coefficient of the EE variable is greater than the PE, SI and FC variables, which indicates that EE tends to have a greater influence than PE, SI and FC on UB. The results of the test in the t-statistics column in Table 2 show that the relationship between PE to UB, EE to UB, SI to UB and FC to UB is said to be related because the value is above 1.96 (Siswoyo, 2017).

To see the percentage effect of each exogenous latent variable on endogenous variables, the following partial and simultaneous determination coefficients (R^2) which is the product of the structural path coefficient with the correlation with the endogenous latent variable. Table 6 shows the value of R-square obtained by 88.61%. These results indicate that PE, EE, SI, and FC together have an effect of 88.61% on UB, while as much as (1-R-squares) The remaining 11.39% is a large contribution of influence given by other factors not examined (-).

Table 6. Analysis of the Coefficient of Determination (R^2)

	Structural Path Coefficient	Correlation with UB	Influence (%)
PE -> UB	0.269	0.843	22.68
EE -> UB	0.509	0.896	45.61
SI -> UB	0.144	0.488	7.03
FC -> UB	0.193	0.689	13.30
TOTAL INFLUENCE (R^2)			88.61

Source: Data processed using software Smart PLS

5. Discussion

Hypothesis 1 states that Performance Expectancy (PE) has an effect on Usage Behavior (UB) electronic medical records by doctors at RSUD Prof. Dr. Margono Soekarjo Purwokerto. Based on the results of the study, it was stated that PE had a significant effect on UB because the t value (2,526) > t table (2,011). The coefficient of the PE path is positive, which means that the higher the PE, the higher the UB, indicating that users feel confident that the RME system helps daily activities such as accuracy in data input, saving costs when using the medical record information system and the time required to access the system (Gagnon *et al*, 2014; Kalavani *et al*, 2018). PE variable has an influence on UB by 22.68%. These results support the research conducted by Bashir (2020) which states that PE has a significant effect on UB and on Nyembezi & Bayaga (2014) that PE has a significant effect on behavioral interest.

Hypothesis 2 states that Effort Expectancy (EE) effect on Usage Behavior (UB) electronic medical records by doctors at RSUD Prof. Dr. Margono Soekarjo Purwokerto. Based on the results of the

study, it was stated that EE had a significant effect on UB because t value (5,510) > t table (2,011). The coefficient of the EE path is positive, which means the higher the EE, the higher the UB, indicating that the user already understands using the medical record information system, the user understands the simulation in the medical record information system, the user finds it easy to use the system and the user is ready to use the system. medical records (Koh, 2010). The EE variable has an influence on UB by 45.61%. This result is not in line with the research conducted by Bashir (2020) which states that EE has no significant effect on UB. Respondents believe that using RME will improve performance. This will form a positive attitude of users towards RME. According to Erawantini (2013) RME is very easy to use, especially the ease of finding data and patient history so that it saves time and is more effective.

Hypothesis 3 states that Social Influence (SI) affects Usage Behavior (UB) electronic medical records by doctors at RSUD Prof. Dr. Margono Soekarjo Purwokerto. Based on the results of the study, it was stated that SI had a significant effect on UB because t value (2.662) > t table (2.011). The SI path coefficient is positive, which means that the higher the SI, the higher the UB. SI has an influence on UB by 7.03%. This shows that SI is one of the factors that influence user behavior in utilizing the medical record system. Users feel confident using the medical record system because of the hospital's policy in using the medical record information system and user requirements in the use of the medical record system. Venkatesh, *et al* (2003) stated that social influence has a positive impact on users, especially support from peers, leaders and organizations. Things that need to be considered are the establishment of written policies or regulations regarding the application of RME that which provides law protection such as procedures for using the RME system, the rights and obligations of RME system users, protection of patient data confidentiality so that patient data is more secure (Risdiyanti, 2019).

Hypothesis 4 states that Facilitating Conditions (FC) has an effect on Usage Behavior (UB) electronic medical records by doctors at RSUD Prof. Dr. Margono Soekarjo Purwokerto. Based on the results of the study FC has a significant effect on UB because t value (2,660) > t table (2,011). The coefficient of the FC path is positive, which means that the higher the FC, the higher the UB. FC variable has an effect on UB by 13.30%. The FC variable is proven to have an effect on the behavior of using the RME system. This shows that facilitating conditions affect user behavior such as the provision of facilities for users of the medical record information system and assistance if they have difficulty using the medical record information system. These results are in accordance with research by Bashir (2020) which states that FC has a significant effect on UB. Supporting facilities are a key factor in the successful implementation of health information systems (Khalifa, 2013). The tendency of users to use a system will increase if the existing facilities are more complete (Handayani, 2015). Supporting facilities at Margono Soekarjo Hospital in the form of facilities and infrastructure such as hardware, software, and networks in every ward, clinic, and supporting installations are adequate. Andriani's research (2017) shows that adequate facility conditions affect the positive attitude of technology system users.

6. Conclusion

Based on the results of the research described above, it can be concluded that the components of UTAUT are: Performance Expectancy, Effort Expectancy, Social Influence, and Facilitating Conditions has significant effect on behavior of using electronic medical records in Prof. Dr. Margono Soekarjo General Hospital, Purwokerto. Path coefficient of PE, EE, SI, FC, when positive, it will cause an increase in usage behavior. The advice that can be given from the author is that it is

necessary to do an analysis other than from the user side, for example from the developer side regarding the suitability of needs with technological developments. Overall satisfaction has a positive effect on overall benefits. For further development of the RME, the output of the report produced by the RME needs to be adjusted to the format from the Ministry of Health.

Acknowledgements

We acknowledge the support received from the Faculty of Economics and Business, Jenderal Sudirman University. In addition, we want to thanks to Prof Dr. Margono Soekarjo General Hospital in Purwokerto and all participants.

References

- Afiana, Fiby Nur, Pungkas, Kholil. 2019. Analisis Perbandingan Metode Tam Dan Utat2 Dalam Mengukur Kesuksesan Penerapan Simrs Pada Rumah Sakit Wijaya Kusuma Dkt Purwokerto. *Jurnal Matrik*. Vol 19. No1 :17-26
- Aldrich, Krista Dan Kumar, Sameer. 2010. Overcoming Barriers To Electronic Medical Record (Emr) Implementation In The Us Healthcare System: A Comparative Study. *Health Informatics Journal* Vol 16 (4): 306-318.
- Andriani, R., Kusnanto, H. and Istiono, W., 2017. Analisis kesuksesan implementasi rekam medis elektronik di RS Universitas Gadjah Mada. *Jurnal Sistem Informasi*, 13(2), pp.90-96.
- Auliya, N., 2018. Penerapan Model Unified Theory of Acceptance and Use Of Technology 2 Terhadap Minat dan Perilaku Penggunaan E-Ticket di Yogyakarta.
- Bashir, N.A.A. and Dirgahayu, T., 2020. Analisis Faktor-Faktor yang Memengaruhi Penggunaan Sistem Informasi Akademik Khusus Orang Tua. *Jurnal Teknologi Technoscientia*, pp.114-124.
- Becker, D., 2016. Acceptance of mobile mental health treatment applications. *Procedia Computer Science*, 98, pp.220-227.
- Bilimoria, B.N.M., 2007. Electronic Health Records Implementation: What Hospitals And Physicians Need To Know To Comply With Recent Health Law Requirements. *Bloomberg Corporate Law Journal*, 501, Pp.415-425.
- Boontarig, W., Chutimaskul, W., Chongsuphajaisiddhi, V. and Papasratorn, B., 2012, June. Factors influencing the Thai elderly intention to use smartphone for e-Health services. In *2012 IEEE symposium on humanities, science and engineering research* (pp. 479-483).
- Chiu Y-L & Tsai C-C. 2014. The Roles Of Social Factor And Internet Self-Efficacy In Nurses' Web-Based Continuing Learning. *Nurse Educ Today*. 34(3):446–50.
- Davis, F.D., 1989. Measurement Scales For Perceived Usefulness And Perceived Ease Of Use.
- Erawantini, F., 2013. Rekam Medis Elektronik: Telaah Manfaat Dalam Konteks Pelayanan Kesehatan Dasar. *FIKI 2013*, 1(1).
- Gagnon, M.P., Talla, P.K., Simonyan, D., Godin, G., Labrecque, M., Ouimet, M. And Rousseau, M., 2014. Electronic Health Record Acceptance By Physicians: Testing An Integrated Theoretical Model. *Journal of Biomedical Informatics*, 48, Pp.17-27.



- 6
Ghozali, I. and Latan, H., 2015. Partial least squares konsep, teknik dan aplikasi menggunakan program smartpls 3.0 untuk penelitian empiris. *Semarang: Badan Penerbit UNDIP*.
- 9
Guo X, Yuan J, Cao X, et al. 2012. Understanding The Acceptance Of Mobile Health Services: A Service Participants Analysis. 2012 International Conference On Management Science & Engineering 19th Annual Conference Proceedings.1868–1873.
- 1
Handayani, T. and Sudiana, S., 2015. Analisis penerapan model UTAUT (Unified Theory of Acceptance and Use of Technology) terhadap perilaku pengguna sistem informasi (studi kasus: sistem informasi akademik pada STTNAS Yogyakarta). *Angkasa: Jurnal Ilmiah Bidang Teknologi*, 7(2), pp.165-180.
- 23
Handiwidjojo, W., 2015. Rekam Medis Elektronik. *Jurnal Eksplorasi Karya Sistem Informasi Dan Sains*, 2(1).
- Hatton, J.D., Schmidt, T.M. And Jelen, J., 2012. Adoption Of Electronic Health Care Records: Physician Heuristics And Hesitancy. *Procedia Technology*, 5, Pp.706-715.
- 30
Henry, A.E., 2011. Implementasi Portal Layanan Bagi Orang Tua Mahasiswa Pada Perguruan Tinggi. *Telematika*, (11).
- Holden, R.J. And Karsh, B.T., 2010. The Technology Acceptance Model: Its Past And Its Future In Health Care. *Journal of Bbiomedical Informatics*, 43(1), Pp.159-172.
- 38
Jogiyanto, H. M., 2008. *Sistem Informasi Keperilakuan*. Yogyakarta: Andi Offset.
- 11
Joshi, K., 1991. A Model Of Users' Perspective On Change: The Case Of Information Systems Technology Implementation. *MIS Quarterly*, 15(2), Pp. 229-242.
- Kalavani A, Kazerani M, Shekofteh M. 2018. Acceptance Of Evidence Based Medicine (EBM) Databases By Iranian Medical Residents Using Unified Theory Of Acceptance And Use Of Technology (UTAUT). *Health Policy Technol*. 7(3):287–92.
- Khalifa, M., 2013. Barriers to health information systems and electronic medical records implementation. A field study of Saudi Arabian hospitals. *Procedia Computer Science*, 21, pp.335-342.
- 2
Kim, S., Lee, K.H., Hwang, H. And Yoo, S., 2016. Analysis Of The Factors Influencing Healthcare Professionals' Adoption Of Mobile Electronic Medical Record (Emr) Using The Unified Theory of Acceptance And Use Of Technology (Utaut) In A Tertiary Hospital. *Bmc Medical Informatics And Decision Making*, 16(1), Pp.1-12.
- 37
Koh, C.E., Prybutok, V.R., Ryan, S.D. and Wu, Y., 2010. A model for mandatory use of software technologies: An integrative approach by applying multiple levels of abstraction of informing science. *Informing Science*, 13.
- 10
Malhotra, N.K. 2009. *Riset Pemasaran*, Edisi Keempat, Jilid 1. Jakarta: PT Indeks.
- 4
Moore, G.C. and Benbasat, I., 1991. Development of an instrument to measure the perceptions of adopting an information technology innovation. *Information systems research*, 2(3), pp.192-222.

- Nyembezi, N. and Bayaga, A., 2014. Performance Expectancy and Usage of Information Systems and Technology: Cloud Computing (PEUISTCC). *International Journal of Educational Sciences*, 7(3), pp.579-586.
- ¹⁹ Phichitchaisopa N, Naenna T. 2013. Factors Affecting The Adoption Of Healthcare Information Technology. *EXCLI J*. 12:413–36.
- ¹⁷ Prasetyo, A. And Azis, M.S., 2018. Perancangan Sistem Informasi Rekam Medis Pada Puskesmas Jomin Berbasis Web. *Jurnal Interkom*, 13(2), Pp.31-38.
- ¹⁵ Priyatno, D. 2011. *Buku Saku SPSS (Cetakan Pertama)*. Yogyakarta: Mediakom.
- Rasmi, M., Alazzam, M.B., Alsmadi, M.K., Almarashdeh, I.A., Alkhasawneh, R.A. and Alsmadi, S., 2018. Healthcare professionals' acceptance Electronic Health Records system: Critical literature review (Jordan case study). *International Journal of Healthcare Management*.
- Rizki, S.D., 2017. Analisa Perancangan Sistem Informasi Rekam Medis Test Narkoba Pada Mahasiswa Baru Upi Yptk Padang 2017. *Jurnal Teknologi*, 7(1). Pp. 152–155
- ²² Risdianty, N. And Wijayanti, C.D., 2019. Evaluasi Penerimaan Sistem Teknologi Rekam Medik Elektronik Dalam Keperawatan. *Carolus Journal Of Nursing*, 2(1), Pp.28-36.
- ¹⁶ Scott, R.E., 2007. E-Records In Health Preserving Our Future. *International Journal Of Medical Informatics*. 76(5-6), Pp.427-431.
- ¹⁴ Setiawan, I. And Purwaningsih, W., 2018. Analisis Perbandingan Metode Tam Dan Utaut Terhadap Penerimaan Pengguna E-Office Di Dprd Banyumas *Jurnal Teknovasi*, 5(2), Pp.14-25.
- ² Shiferaw, K.B. And Mehari, E.A., 2019. Modeling Predictors Of Acceptance And Use Of Electronic Medical Record System In A Resource Limited Setting: Using Modified UTAUT Model. *Informatics In Medicine Unlocked*, 17, P.100182.
- ²¹ Siswoyo, H., 2017. Metode sem untuk penelitian manajemen dengan amos lisrel pls. *Luxima Metro Media, Jakarta Timur*, 6, pp.43-67.
- ³ Venkatesh, V., Morris, M.G., Davis, G.B. And Davis, F.D., 2003. User Acceptance Of Information Technology: Toward A Unified View. *Mis Quarterly*, Pp.425-478.
- ⁸ Williams, R., Stewart, J. And Slack, R., 2005. *Social Learning In Technological Innovation: Experimenting With Information And Communication Technologies*. Edward Elgar Publishing.

28. Analysis of Application of the UTAUT Model on Behavior of Use of Electronic Medical Records in RSUD Prof Dr Margono Soekarjo Purwokerto

ORIGINALITY REPORT

15%
SIMILARITY INDEX

8%
INTERNET SOURCES

12%
PUBLICATIONS

0%
STUDENT PAPERS

PRIMARY SOURCES

1 Bambang Leo Handoko, Stephanie Liusman. "Analysis of External Auditor Intentions in Adopting Artificial Intelligence as Fraud Detection with the Unified Theory of Acceptance and Use of Technology (UTAUT) Approach", The 2021 12th International Conference on E-business, Management and Economics, 2021 3%
Publication

2 Eka Wilda Faida, Stefanus Supriyanto, Setya Haksama, Hosizah Markam, Amir Ali. "The Acceptance and Use of Electronic Medical Records in Developing Countries within the Unified Theory of Acceptance and Use of Technology Framework", Open Access Macedonian Journal of Medical Sciences, 2022 1%
Publication

3 Muhammad Waqas, Arsalan Najmi. "Enhancing Consumption of Sustainable Transportation: Determinants and Outcome 1%

of Consumer Engagement with Bike-Sharing Service", Research Square Platform LLC, 2022

Publication

4

Wei He, Yulin Fang, Kwok-Kee Wei. "The role of trust in promoting organizational knowledge seeking using knowledge management systems: An empirical investigation", Journal of the American Society for Information Science and Technology, 2009

Publication

<1 %

5

Rosyida Izzati, Nur Muntiah, Nurul Hidayah. "An Analysis of Factor That Influence the Interests in Behaviors of Using Accounting Information Systems Based on E-Commerce", Jurnal AKSI (Akuntansi dan Sistem Informasi), 2021

Publication

<1 %

6

Syahputra Syahputra, Mahendra Fakhri, Clarissa Aulia Putri, MAHIR PRADANA. "The Role of Loyalty and Satisfaction's Effect on Word-of-Mouth Influence in Indonesian B2B Environment", Research Square Platform LLC, 2022

Publication

<1 %

7

www.duanemorris.com

Internet Source

<1 %

8

www.ejlt.org

Internet Source

<1 %

9

Kasidit Eiam-o-pas, Nuchjarin Intalar, Chawalit Jeenanunta. "Factors Affecting Acceptance of Dental Appointment Application among Users in Bangkok and Metropolitan Area", 2022 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP), 2022

Publication

<1 %

10

ojs.unik-kediri.ac.id

Internet Source

<1 %

11

Senaka Fernando, Jyoti Choudrie, Mark Lycett, Sergio de Cesare. "Hidden assumptions and their influence on clinicians' acceptance of new IT systems in the NHS", Information Systems Frontiers, 2010

Publication

<1 %

12

content.sciendo.com

Internet Source

<1 %

13

Mulatu Tilahun Gelaw, Eshetie Berhan Atanaw, Gezahegn Tesfaye Dadi. "Determinants of Consumers' Purchase Intention on Digital Business Model Platform: Evidence from Ethiopia Using Partial Least Square Structural Equation Model (PLS-SEM) Technique", Research Square Platform LLC, 2022

Publication

<1 %

14	ieomsociety.org Internet Source	<1 %
15	jurnal.stie-aas.ac.id Internet Source	<1 %
16	slideplayer.com Internet Source	<1 %
17	repository.nusamandiri.ac.id Internet Source	<1 %
18	www.online-journal.unja.ac.id Internet Source	<1 %
19	Imke Boekestijn, Samaneh Azargoshasb, Matthias N. van Oosterom, Leon J. Slof et al. "Value-assessment of computer-assisted navigation strategies during percutaneous needle placement", International Journal of Computer Assisted Radiology and Surgery, 2022 Publication	<1 %
20	stikespanakkukang.ac.id Internet Source	<1 %
21	ijeba.ejournal.unri.ac.id Internet Source	<1 %
22	jurnal.akperrscikini.ac.id Internet Source	<1 %
23	repository.unjaya.ac.id	

<1 %

24

portal.amelica.org

Internet Source

<1 %

25

scholar.ufs.ac.za

Internet Source

<1 %

26

tkuir.lib.tku.edu.tw:8080

Internet Source

<1 %

27

www.e-journal.ikhac.ac.id

Internet Source

<1 %

28

Submitted to The New Art College

Student Paper

<1 %

29

Wen-jue Wu, Han-You Mo, Hong Liu.
"Transbronchial lung cryobiopsy for
connective tissue disease-related interstitial
lung disease and interstitial pneumonia with
autoimmune features: a single center
retrospective case series", Clinical
Rheumatology, 2021

Publication

<1 %

30

repository.upnyk.ac.id

Internet Source

<1 %

31

ijbmi.org

Internet Source

<1 %

32

journal.umy.ac.id

Internet Source

<1 %

33

ejournal.umm.ac.id

Internet Source

<1 %

34

ojs.unikom.ac.id

Internet Source

<1 %

35

www.sciencegate.app

Internet Source

<1 %

36

Nanang Hunaifi. "Penerapan Metode Tam Terhadap Penerimaan Sistem Informasi Produksi Garment", Jurnal Informatika, 2018

Publication

<1 %

37

Transforming Government: People, Process and Policy, Volume 8, Issue 2 (2014-09-16)

Publication

<1 %

38

jurnal.pancabudi.ac.id

Internet Source

<1 %

Exclude quotes

On

Exclude matches

Off

Exclude bibliography

Off