

DAFTAR PUSTAKA

- Ahmed, T. M., & Seliaman, M. E. (2017). Investigating the adoption and impact of e-learning in KSA: Prince Sattam bin Abdul Aziz University case study. *Journal of Theoretical and Applied Information Technology*, 95(11). <http://www.jatit.org/volumes/Vol95No11/28Vol95No11.pdf>
- Ajzen, I. (1991). The theory of planned behavior. *Organizational Behavior and Human Decision Processes*, 50(2), 179–211. [https://doi.org/10.1016/0749-5978\(91\)90020-T](https://doi.org/10.1016/0749-5978(91)90020-T)
- Ajzen, I. (2020). The theory of planned behavior: Frequently asked questions. *Human Behavior and Emerging Technologies*, 2(4), 314–324. <https://doi.org/10.1002/HBE2.195>
- Ajzen, I., & Fishbein, M. (1980). *Understanding attitudes and predicting social behavior*. Prentice Hall International. <https://www.scienceopen.com/book?vid=c20c4174-d8dc-428d-b352-280b05eacdf7>
- Al-Fraihat, D., Joy, M., Masa'deh, R., & Sinclair, J. (2020). Evaluating E-learning systems success: An empirical study. *Computers in Human Behavior*, 102, 67–86. <https://doi.org/10.1016/J.CHB.2019.08.004>
- Al-Gahtani, S. S. (2008). Testing for the Applicability of the TAM Model in the Arabic Context. *Information Resources Management Journal*, 21(4), 1–26. <https://doi.org/10.4018/IRMJ.2008100101>
- Al-Gahtani, S. S. (2016). Empirical investigation of e-learning acceptance and assimilation: A structural equation model. *Applied Computing and Informatics*, 12(1), 27–50. <https://doi.org/10.1016/J.ACI.2014.09.001>
- Al-Kofahi, M. K., Hassan, H., & Mohamad, R. (2020). Information Systems Success Model: A review of literature. *International Journal of Innovation, Creativity and Change. Wwww.Ijicc.Net*, 12(8). https://www.ijicc.net/images/vol12/iss8/12839_Kofahi_2020_E_R.pdf
- Al-Zahrani, M. S. (2020). Integrating IS success model with cybersecurity factors for e-government implementation in the Kingdom of Saudi Arabia. *International Journal of Electrical and Computer Engineering (IJECE)*, 10(5), 4937–4955. <https://doi.org/10.11591/IJECE.V10I5.PP4937-4955>
- Aldholay, A., Isaac, O., Abdullah, Z., Abdulsalam, R., & Al-Shibami, A. H. (2018). An extension of Delone and McLean IS success model with self-efficacy: Online learning usage in Yemen. *International Journal of Information and Learning Technology*, 35(4), 285–304. <https://doi.org/10.1108/IJILT-11-2017-0116/FULL/XML>

- Alemu, D., & Negash, S. (2015). Mobile information system for small-scale rural farmers. *Proceedings - 2015 IEEE International Conference on Technological Innovations in ICT for Agriculture and Rural Development, TIAR*, 79–83. <https://doi.org/10.1109/TIAR.2015.7358535>
- Alfiani, L., Septiawan, B., & Suratman, S. S. (2022). Faktor- Faktor Yang Mempengaruhi Kepuasan Pengguna Dan Implikasinya Terhadap Kinerja Pengguna Sistem Informasi Akuntansi. *Jurnal Akademi Akuntansi*, 5(1), 47–61. <https://doi.org/10.22219/JAA.V5I1.17962>
- Alomary, A., & Woollard, J. (2015, November). How is Technology Accepted by Users? A Review of Technology Acceptance Models and Theories. *Proceedings of The IRES 17th International Conference, London, United Kingdom*. <https://eprints.soton.ac.uk/382037/1/110-14486008271-4.pdf>
- Alwabel, A. S. A. (2021). *Data-driven modelling of technology acceptance: A machine learning perspective* [Manchester University]. https://www.research.manchester.ac.uk/portal/files/213185703/FULL_TEXT.PDF
- Alzahrani, A. I., Mahmud, I., Ramayah, T., Alfarraj, O., & Alalwan, N. (2017). Modelling digital library success using the DeLone and McLean information system success model. *Journal of Librarianship and Information Science*, 51(2), 291–306. <https://doi.org/10.1177/0961000617726123>
- Anfara, V. A., & Mertz, N. T. (2006). *Theoretical framework in qualitative research*. SAGE Publications. https://journals.sagepub.com/doi/pdf/10.1177/14778785070050030302?casa_token=u_NmLza91pQAAAAA:PECcWh0pxTLF8mt2DvWDCnLP-TCSH490MgNpWN9vdjaUfHlJk-u3BVRHgUa8v5XuRWI_8VY-SJWdoQ
- APIII. (2022). *Profil Internet Indonesia 2022*. apjii.or.id
- Aprianto, I. G. L. A. (2022). Tinjauan Literatur: Penerimaan Teknologi Model UTAUT. *KONSTELASI: Konvergensi Teknologi Dan Sistem Informasi*, 2(1). <https://doi.org/10.24002/KONSTELASI.V2I1.5377>
- Arisman, H. (2021). *Analisis kesuksesan penerapan sistem informasi prediksi cuaca weather research and forecasting dalam mendukung proyek teknologi modifikasi cuaca* [UNIVERSITAS GADJAH MADA]. <http://etd.repository.ugm.ac.id/penelitian/detail/206528>
- Arromdee, J., & Suntrayuth, S. (2020). E-commerce Adoption for Rice Selling in Thailand: An Empirical Study. *Thailand and The World Economy*, 38(2). <https://so05.tci-thaijo.org/index.php/TER/article/view/234917/166365>
- Arun, R., Sandra S, L., & Robert B, W. (2002). Assessing the Validity of IS Success Models: An Empirical Test and Theoretical Analysis on JSTOR. *Information Systems Research*, 13(1). <https://www.jstor.org/stable/23015823>

- Asyifa, N. N. (2020). *Pengaruh kualitas sistem, kualitas informasi, kualitas layanan dan kemudahan penggunaan terhadap kepuasan pengguna Sistem Informasi Akademik Mahasiswa (SIAM) Universitas Brawijaya* [Universitas Brawijaya]. <http://repository.ub.ac.id/id/eprint/183807/>
- Atmaja, R. (2020, May 5). *ProPaktani Kunci Kesejahteraan Petani*. <http://cybex.pertanian.go.id/artikel/92692/propaktani-kunci-kesejahteraan-petani-/>
- Atmojo, D. P. T. (2016). *Analisis faktor-faktor yang mempengaruhi minat pemanfaatan sistem informasi dan penggunaan sistem informasi* [Jember University]. <https://repository.unej.ac.id/bitstream/handle/123456789/79384/DrajatPriyoTriAtmojo.pdf?sequence=1>
- Azwar, S. (1995). *Sikap manusia: Teori dan pengukurannya* (2nd ed.). Pustaka Pelajar.
- Azwar, S. (2011). *Metode Penelitian* (1st ed.). Pustaka Pelajar.
- Azwar, S. (2022). *Penyusunan Skala Psikologi* (3rd ed.). Pustaka Pelajar.
- Badan Pusat Statistik. (2021). *Indeks Pembangunan Manusia 2021*. <https://www.bps.go.id/publication/download.html?nrbvfeve=NDhiNjQ2NmRjZjE0YjU2MmRmOWYxN2Uy&xzmn=aHR0cHM6Ly93d3cuYnBzLmdvLmlkL3B1YmxpY2F0aW9uLzlwMjIvMDUvMTEvNDhiNjQ2NmRjZjE0YjU2MmRmOWYxN2UyL2luZGVrcy1wZW1iYW5ndW5hbi1tYW51c2lhLTIwMjEuHRtbA%3D%3D&twoadfnarf>
- Badar, E. F., & Seniati, A. Ni. L. (2017). Pengaruh trust terhadap berbagi pengetahuan melalui mediasi komitmen organisasi pada dosen perguruan tinggi. *Indigenous: Jurnal Ilmiah Psikologi*, 2(1). <https://doi.org/10.23917/INDIGENOUS.V1I1.4459>
- Baker, E. W., Al-Gahtani, S., & Hubona, G. S. (2012). Cultural Impacts on Acceptance and Adoption of Information Technology in a Developing Country. In *International Comparisons of Information Communication Technologies: Advancing Applications* (pp. 54–77). IGI Global. <https://doi.org/10.4018/978-1-61350-480-2.CH003>
- Bandura, A. (1986). *Social Foundations of Thought and Action: A Social Cognitive Theory*. Prentice-Hall.
- Bandura, A. (1999). A social cognitive theory of personality. In L. Pervin & O. John (Eds.), *Handbook of personality: Theory and research* (2nd ed., pp. 154–196). Guilford. <https://www.uky.edu/~eushe2/Bandura/Bandura1999HP.pdf>
- Bandura, A. (2012). Social cognitive theory. In P. A. M. Van Lange, A. W.

Kruglanski, & E. T. Higgins (Eds.), *Handbook of Theories of Social Psychology* (Vol. 1, pp. 349–374). SAGE Publications Inc.
<https://doi.org/10.4135/9781446249215.N18>

Bappenas. (2018). *Demografi Pembangunan*.

Baroudi, J. J., & Orlikowski, W. J. (1988). A short-form measure of user information satisfaction: A psychometric evaluation and notes on use. *Journal of Management Information Systems*, 4(4), 44–59.
<https://doi.org/10.1080/07421222.1988.11517807>

Bass, F. M. (1969). A New Product Growth for Model Consumer Durables on JSTOR. *Management Science*, 15(5), 215–227.
<http://www.jstor.org/stable/2628128>

Beza, E., Reidsma, P., Poortvliet, P. M., Belay, M. M., Bijen, B. S., & Kooistra, L. (2018). Exploring farmers' intentions to adopt mobile Short Message Service (SMS) for citizen science in agriculture. *Computers and Electronics in Agriculture*, 151, 295–310.
<https://doi.org/10.1016/J.COMPAG.2018.06.015>

Bhatti, T. (2007). Exploring Factors Influencing the Adoption of Mobile Commerce. *The Journal of Internet Banking and Commerce*.
<https://www.semanticscholar.org/paper/Exploring-Factors-Influencing-the-Adoption-of-Bhatti/99fd55d0f54c820e568ed11b479eef4f06d61e95>

Black, T. R. (2011). *Understanding Social Science Research*. SAGE Publications.
<https://doi.org/10.4135/9780857020208>

BPS. (2022a). *Produk Domestik Regional Bruto Provinsi-provinsi di Indonesia Menurut Lapangan Usaha 2017-2021*.
<https://www.bps.go.id/publication/download.html?nrbvfeve=YWVIYzA2NGNIMDIwNTM2M2VkZDFkNThj&xzmn=aHR0cHM6Ly93d3cuYnBzLmdvLmlkL3B1YmxpY2F0aW9uLzlwMjIvMDQvMDUvYWVIYzA2NGNIMDIwNTM2M2VkZDFkNThjL3Byb2R1ay1kb21lc3Rpay1yZWdpb25hbC1icnV0by1wcm92aW5zaS1wcm92aW5zaS1kaS1pbmRvbmVzaWEtbWVudXJ1dC1sYXBhbmdhbi1lc2FoYS0yMDE3LTIwMjEuaHRtbA%3D%3D&twoadfnoarfeauf=MjAyMi0wOC0wMiAwNzoyNzoxMA%3D%3D>

BPS. (2022b). *Statistik Telekomunikasi Indonesia 2021*.
<https://www.bps.go.id/publication/2022/09/07/bcc820e694c537ed3ec131b9/statistik-telekomunikasi-indonesia-2021.html>

Brown, L. A. (1981). *Innovation Diffusion: A New Perpevtive*. Methuen and Co.

Brown, S. A., & Venkatesh, V. (2005). Model of adoption of technology in households: A baseline model test and extension incorporating household life cycle. *MIS Quarterly: Management Information Systems*, 29(3), 399–426.
<https://doi.org/10.2307/25148690>

- Bryant, J. R., Ogle, G., Marshall, P. R., Glassey, C. B., Lancaster, J. A. S., Garcia, S. C., & Holmes, C. W. (2010). Description and evaluation of the Farmax Dairy Pro decision support model. *New Zealand Journal of Agricultural Research*, 53(1), 13–28.
- Bungin, B. (2013). *Metode penelitian sosial & ekonomi: format-format kuantitatif dan kualitatif untuk studi sosiologi, kebijakan, publik, komunikasi, manajemen, dan pemasaran* (1st ed.). Kencana Prenada Media Group.
- Cárdenas Tamayo, R. A., Lugo Ibarra, M. G., & Antonio García Macías, J. (2010). Better crop management with decision support systems based on wireless sensor networks. *Program and Abstract Book - 2010 7th International Conference on Electrical Engineering, Computing Science and Automatic Control, CCE 2010*, 412–417. <https://doi.org/10.1109/ICEEE.2010.5608629>
- Carrión, G. C., Nitzl, C., & Roldán, J. L. (2017). Mediation Analyses in Partial Least Squares Structural Equation Modeling: Guidelines and Empirical Examples. In H. . Latan & R. Noonan (Eds.), *Partial Least Squares Path Modeling* (pp. 173–195). Springer International Publishing. https://doi.org/10.1007/978-3-319-64069-3_8
- Chang, A. (2012). UTAUT and UTAUT 2: A review and agenda for future research. *Journal The WINNERS*, 13(2), 106–114. <https://media.neliti.com/media/publications/27041-EN-utaut-and-utaut-2-a-review-and-agenda-for-future-research.pdf>
- Chang, C. L.-H., & Hsiao, W.-Y.-L. (2017). On-line agricultural products navigation system on the Google Earth. *Agricultural Economics (Czech Republic)*, 63(9), 400–410. <https://doi.org/10.17221/26/2016-AGRICECON>
- Chau, P. Y. K., & Hu, P. J. (2002). Examining a model of information technology acceptance by individual professionals: An exploratory study. *Journal of Management Information Systems*, 18(4), 191–229. <https://doi.org/10.1080/07421222.2002.11045699>
- Chaudhuri, B., & Kendall, L. (2021). Collaboration without consensus: Building resilience in sustainable agriculture through ICTs. *The Information Society an International Journal*, 37(1), 1–19. <https://doi.org/10.1080/01972243.2020.1844828>
- Chen, J., & Wang, L. (2020). Research on agricultural information adoption behavior of mobile terminal from the perspective of supply and demand matching. *2nd International Conference on Economic Management and Model Engineering (ICEMME)*, 29–32. <https://ieeexplore-ieee-org.ezproxy.ugm.ac.id/stamp/stamp.jsp?tp=&arnumber=9434716>
- Chin, W. W. (1998). The partial least squares approach for structural equation modeling. In *Modern methods for business research* (pp. 295–236).

Lawrence Erlbaum Associates.

- Chui, M., Manyika, J., Jacques, B., Dobbs, R., Roxburgh, C., Sarrazin, H., Geoffrey, S., & Westergren, M. (2012). Effectiveness of social media as a tool of communication and its potential for technology enabled connections: A micro-level study. In *International Journal of Scientific and Research Publications* (Issue 5). McKinsey Global Institute. <https://doi.org/ISSN2250-3153>
- Compeau, D., Higgins, C. A., & Huff, S. (1999). Social Cognitive Theory and individual reactions to computing technology: A longitudinal study. *Management Information Systems*, 23(2). <https://www.jstor.org/stable/pdf/249749.pdf>
- Compeau, D. R., & Higgins, C. A. (1995). Application of Social Cognitive Theory to Training for Computer Skills. *Information Systems Research*, 6(2), 118–143. https://www.jstor.org/stable/pdf/23011006.pdf?casa_token=FfaSKzDpktgAAAAA:-SJv5sLIhQaMMTnMsX1kyJ_6rNcqfY3wCf1R5vE4N5awtLqfDvX77_fhX0iJhd1otJB5S5bHDT0cb4N86PEhHnf8keufMBwYwNsr3WRoNIUS1CVcvqKkOw
- Creswell, J. W., & Creswell, J. D. (2017). *Qualitative, quantitative, and mixed methods approaches + a crash course in statistics*. (5th ed.). SAGE PUBLICATIONS. <https://us.sagepub.com/en-us/nam/research-design/book255675>
- Data.ai. (2023). *State of mobile*. <https://www.data.ai/en/go/state-of-mobile-2023/>
- Data Reportal. (2023a). *Global Social Media Statistics* . <https://datareportal.com/social-media-users>
- Data Reportal. (2023b). *Digital 2023: Global Overview Report*. <https://datareportal.com/reports/digital-2023-global-overview-report>
- Data Reportal. (2023c). *Digital 2023: Indonesia* . <https://datareportal.com/reports/digital-2023-indonesia>
- Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS Quarterly: Management Information Systems*, 13(3), 319–339. <https://doi.org/10.2307/249008>
- Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1989). User acceptance of computer technology: A comparison of two theoretical models. *Management Science*, 35(8). https://www.jstor.org/stable/2632151?origin=JSTOR-pdf#metadata_info_tab_contents
- Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1992). Extrinsic and Intrinsic

- Motivation to Use Computers in the Workplace1. *Journal of Applied Social Psychology*, 22(14), 1111–1132. <https://doi.org/10.1111/J.1559-1816.1992.TB00945.X>
- Delone, & McLean. (1992). Information systems success: The quest for the dependent variable. *Information System Research*, 3(1), 60–95. <https://doi.org/10.1287/isre.3.1.60>
- DeLone, W. H., & McLean, E. R. (2003). The DeLone and McLean Model of Information Systems Success: A Ten-Year Update. *Journal of Management Information Systems*, 19(4), 9–30. <https://doi.org/10.1080/07421222.2003.11045748>
- DeLone, W. H., & McLean, E. R. (2016). Information Systems Success Measurement. *Foundations and Trends® in Information Systems*, 2(1), 1–116. <https://doi.org/10.1561/29000000005>
- Demiryurek, K., Erdem, H., Ceyhan, V., Atasever, S., & Uysal, O. (2008). Agricultural information systems and communication networks: the case of dairy farmers in the Samsun province of Turkey. *Information Research*, 13(2). <http://www.informationr.net/ir/13-2/paper343.html>
- Deshpande, R. (1983). Review: A Comparative Review of Innovation Diffusion Books Reviewed Work(s): Innovation Diffusion: A New Perspective by Lawrence A. Brown: Diffusion of Innovations by Everett M. Rogers: Patterns of Technological Innovation by Devendra Sahal. *Journal of Marketing Research*, 20(3), 327–334. https://www-jstor-org.ezproxy.ugm.ac.id/stable/pdf/3151838.pdf?refreqid=excelsior%3A49cc6f1ed0d48f0d474f7d04dab68e52&ab_segments=0%2F5SYC-6427%2Ftest&origin=&acceptTC=1
- Desmaryani, S., Kusriani, N., Lestari, W., Septiyarini, D., Harkeni, A., Burhansyah, R., Kilmanun, J. C., Omayana Dewi, D., Rialdi Syafutra, M., David, J., & An-driany, E. (2022). The role of digital leadership, system of information, and service quality on e-learning satisfaction. *International Journal of Data and Network Science*, 6, 1215–1222. <https://doi.org/10.5267/j.ijdns.2022.6.012>
- Diklat Nasional. (2022, January 4). *Pengertian dan Tujuan Bimbingan Teknis (Bimtek)*. <https://diklatnasional.com/artikel-bimtek/pengertian-bimbingan-teknis-bimtek/>
- Ditjen TP, D. J. T. P. (2022). *Petunjuk teknis pelaksanaan Bimbingan Teknis dan Sosialisasi Direktorat Jenderal Tanaman Pangan*.
- Doll, W. J., & Torkzadeh, G. (1988). The measurement of end-user computing satisfaction. *MIS Quarterly: Management Information Systems*, 12(2), 259–273. <https://doi.org/10.2307/248851>

- Doll, W. J., Xia, W., & Torkzadeh, G. (1994). A confirmatory factor analysis of the end-user computing satisfaction instrument. *MIS Quarterly: Management Information Systems*, 18(4), 453–460. <https://doi.org/10.2307/249524>
- Douglas, H. E. (2009). Reintroducing Prediction to Explanation. *Philosophy of Science*, 76(4), 444–463. <https://doi.org/10.1086/648111>
- DPKP DIY. (2022). *Rekap ketenagaan penyuluhan DIY*.
- Dumais, S., Teevan, J., Jeffries, R., Russell, D. M., & Tang, D. (2014). Understanding user behaviour through log data and analysis. In J. S. Olson & W. A. Kellogg (Eds.), *Ways of Knowing in HCI* (pp. 350–372). Springer New York. https://doi.org/10.1007/978-1-4939-0378-8_14/COVER/
- Eastwood, C., Ayre, M., Nettle, R., & Rue, B. (2019). Making sense in the cloud: Farm advisory services in a smart farming future. *NJAS - Wageningen Journal of Life Sciences*, 90–91(December 2018), 100298. <https://doi.org/10.1016/j.njas.2019.04.004>
- Edwards, A. L. (1957). *Techniques of attitude scale construction*. Prentice-Hall, Inc. https://books.google.com/books/about/Techniques_of_Attitude_Scale_Construction.html?id=6WV9AAAAMAAJ
- Edwards, J. R. (2001). Multidimensional Constructs in Organizational Behavior Research: An Integrative Analytical Framework. *Organizational Research Methods*, 4(2), 144–192. <https://doi.org/10.1177/109442810142004>
- Eisenhardt, K. M. (1989). Building theories from case study research. *The Academy of Management Review*, 14(4), 532. <https://doi.org/10.2307/258557>
- Eliana, N., Lubis, D. P., & Ranguti, P. A. (2014). Internet usage and agricultural information utilization by agricultural extension staff in Bogor District. *Jurnal Komunikasi Pembangunan*, 12(2), 245297. https://r.search.yahoo.com/_ylt=AwrX.2f2J1dkaIw8yhvLQwx.;_ylu=Y29sbwNzZzMEcG9zAzEEdnRpZAMEc2VjA3Ny/RV=2/RE=1683462262/RO=10/RU=https%3A%2F%2Fjournal.ipb.ac.id%2Findex.php%2Fjurnal_kmp%2Farticle%2Fdownload%2F8666%2Fpdf%2F0/RK=2/RS=vuZTVPn8_q_tL68d6Jq2xfigFR
- Engel, S. L. (2015). *The hungry mind : the origins of curiosity in childhood*. Harvard University Press. <https://www.hup.harvard.edu/catalog.php?isbn=9780674736757>
- Epstein, J. M. (2020). *Generative Social Science : Studies in Agent-Based Computational Modeling*. PRINCETON University PRESS. <https://press.princeton.edu/books/paperback/9780691208749/generative-social-science>

- Epstein, J. M., & Axtell, R. (1996). *Growing Artificial Societies : Social Science from the Bottom up*. Brookings Institution Press.
- Farida, I. (2022). Building the capacity of agricultural extension agents through Cyber Extension media literacy. [Peningkatan kapasitas penyuluh pertanian melalui literasi media Cyber Extension] [Bogor Agricultural University]. In *Bogor Agricultural University*.
<https://repository.ipb.ac.id/handle/123456789/111602>
- Farooq, S. M., Salam, M., Jaafar, N., Fayolle, A., Ayupp, K., Beogradu, U., & Sajid, A. (2017). Acceptance and use of lecture capture system (LCS) in executive business studies Extending UTAUT2 Mirjana Radovic-Markovic. *Interactive Technology and Smart Education*, 14, 329–348.
<https://doi.org/10.1108/ITSE-06-2016-0015>
- Fatahudin, F. (2020). *ADOPSI MODEL UTAUT3 PADA NASABAH PENGGUNA MOBILE BANKING PERBANKAN SYARIAH INDONESIA DI MASA PANDEMIK COVID-19 (Studi Pada Nasabah Bank Syariah di Jawa Barat)* [UNIVERSITAS ISLAM NEGERI (UIN) SYARIF HIDAYATULLAH].
[https://repository.uinjkt.ac.id/dspace/bitstream/123456789/57201/1/Thesis Akhir - Fathoni.pdf](https://repository.uinjkt.ac.id/dspace/bitstream/123456789/57201/1/Thesis%20Akhir%20Fathoni.pdf)
- Fiddin, F., Kamaliah, K., & Hardi, H. (2013). Faktor-faktor yang mempengaruhi minat pemanfaatan sistem informasi dan penggunaan sistem informasi (studi pada Satuan Kerja Perangkat Daerah Pemerintah Provinsi Riau). *SOROT*, 8(1), 77–94. <https://doi.org/10.31258/sorot.8.1.77-94>
- Fishbein, M., & Ajzen, I. (1975a). *Belief, attitude, intention, and behavior: An introduction to theory and research*. Addison-Wesley.
<https://people.umass.edu/ajzen/f&a1975.html>
- Fishbein, M., & Ajzen, I. (1975b). *Belief, attitude, intention and behaviour: An introduction to theory and research*. Reading, MA: Addison-Wesley.
- Fox, G., Mooney, J., Rosati, P., & Lynn, T. (2021). *AgriTech Innovators: A Study of Initial Adoption and Continued Use of a Mobile Digital Platform by Family-Operated Farming Enterprises*.
<https://doi.org/10.3390/agriculture11121283>
- Fox, G., Mooney, J., Rosati, P., Paulson, V., & Lynn, T. (2018). Towards an understanding of farmers' mobile technology adoption: A comparison of adoption and continuance intentions. *Americas Conference on Information Systems 2018: Digital Disruption, AMCIS 2018*. <https://www-scopus-com.ezproxy.ugm.ac.id/record/display.uri?eid=2-s2.0-85054202435&origin=resultlist>
- Galende-Sánchez, E., & Sorman, A. H. (2021). From consultation toward co-production in science and policy: A critical systematic review of participatory climate and energy initiatives. *Energy Research & Social*

Science, 73, 101907. <https://doi.org/10.1016/J.ERSS.2020.101907>

Gamponia, S. A. J., Turtosa, J. M. H., Yamba, J. M. B., & Jamisola, A. B. (2019). Ma-ease: An android-based technology for corn production and management. *Pertanika Journal*, 27(1), 49–68.
<http://www.pertanika.upm.edu.my/pjst/browse/archives?article=JST-0963-2017>

Ghozali, I. (2014). *Structural Equation Modeling metode alternatif dengan Partial Least Squares (PLS)*. Badan Penerbit Universitas Diponegoro.

Gichamba, A., & Lukandu, I. A. (2012). A Model for designing M-Agriculture Applications for Dairy Farming. *The African Journal of Information Systems*, 4(4).
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1040&context=ajis>

Given, L. M. (2012). The SAGE Encyclopedia of Qualitative Research Methods. In *The SAGE Encyclopedia of Qualitative Research Methods*. SAGE Publications, Inc. <https://doi.org/10.4135/9781412963909.N392>

Gotthardt, M., & Mezhuyev, V. (2022). Measuring the Success of Recommender Systems: A PLS-SEM Approach. *IEEE Access*, 10, 30610–30623.
<https://doi.org/10.1109/ACCESS.2022.3159652>

Grace Fox, Mooney, J., Pierangelo Rosati, Victoria Paulsson, & Lynn, T. (2018). Towards an Understanding of Farmers' Mobile Technology Adoption: A Comparison of Adoption and Continuance Intentions. *Americas Conference on Information Systems 2018: Digital Disruption, AMCIS*.
https://www.researchgate.net/publication/326804233_Towards_an_Understanding_of_Farmers'_Mobile_Technology_Adoption_A_Comparison_of_Adoption_and_Continuance_Intentions

Gudka, M., Gardiner, K. L. K., & Lomas, T. (2023). Towards a framework for flourishing through social media: a systematic review of 118 research studies. *Journal of Positive Psychology*, 18(1), 86–105.
<https://doi.org/10.1080/17439760.2021.1991447>

Hair, J. ., Sartstedt, C., Ringle, & Gudergan, S. (2018). Advanced issues in partial least squares structural equation modeling. In *saGe publications* (Issue 1). Sage. https://books.google.com.my/books?hl=en&lr=&id=-f1rDgAAQBAJ&oi=fnd&pg=PP1&ots=vY_2fpD1cU&sig=yGGPkxdCk9anwhI5532WZE_aTJU

Hair, J. F., Hult, G. T. M., Ringle, C. M., & Sarstedt, M. (2021). *A primer on partial least squares structural equation modeling (PLS-SEM)*. Sage.
<https://us.sagepub.com/en-us/nam/a-primer-on-partial-least-squares-structural-equation-modeling-pls-sem/book270548>

- Hair, J. F., Hult, G. T. M., Ringle, C. M., Sarstedt, M., Danks, N. P., & Ray, S. (2021). *Partial Least Squares Structural Equation Modeling (PLS-SEM) Using R* (1st ed.). Springer Cham. <https://doi.org/10.1007/978-3-030-80519-7>
- Hair, J. F., Hult, G. T., Ringle, C., & Sarstedt, M. (2017). A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM). In Sage. Sage Publication. <https://us.sagepub.com/en-us/nam/a-primer-on-partial-least-squares-structural-equation-modeling-pls-sem/book244583>
- Hair, J. F., Ringle, C. M., Danks, N. P., Hult, G. T. M., Sarstedt, M., & Ray, S. (2021). *Partial Least Squares Structural Equation Modeling (PLS-SEM) Using R*. Springer Nature. <https://doi.org/https://doi.org/10.1007/978-3-030-80519-7>
- Hair, J. F., Risher, J. J., Sarstedt, M., & Ringle, C. M. (2019). When to use and how to report the results of PLS-SEM. *European Business Review*, 31(1), 2–24. <https://doi.org/10.1108/EBR-11-2018-0203/FULL/XML>
- Hair, J. F., & Sarstedt, M. (2021). Data, measurement, and causal inferences in machine learning: opportunities and challenges for marketing. *Journal of Marketing Theory and Practice*, 29(1), 65–77. <https://doi.org/10.1080/10696679.2020.1860683>
- Han, H., Xiong, J., & Zhao, · Kexin. (2021). Digital inclusion in social media marketing adoption: the role of product suitability in the agriculture sector. *Information Systems and E-Business Management*. <https://doi.org/10.1007/s10257-021-00522-7>
- Harno, J. (2010). Impact of 3G and beyond technology development and pricing on mobile data service provisioning, usage and diffusion. *Telematics and Informatics*, 27(3), 269–282. <https://doi.org/10.1016/J.TELE.2009.10.001>
- Hayat, N., Al Mamun, A., Azwin, N., Nasir, M., Selvachandran, G., Binti, N., Nawi, C., & Gai, Q. S. (2020). Predicting Sustainable Farm Performance- Using Hybrid Structural Equation Modelling with an Artificial Neural Network Approach. *Land*, 9(289). <https://doi.org/10.3390/land9090289>
- Hokayem, H., Jin, H., & Yamaguchi, E. (2020). Feedback loop reasoning and knowledge sources for elementary students in three countries. *EURASIA Journal of Mathematics, Science and Technology Education*, 2020(2), 1819. <https://doi.org/10.29333/ejmste/112582>
- Holbrook, & Hirschman. (1982). The Experiential Aspects of Consumption: Consumer Fantasies, Feelings, and Fun. *Journal of Consumer Research V*. https://www.jstor.org/stable/2489122#metadata_info_tab_contents
- <https://worldpopulationreview.com/>. (2023). *Telegram Users by Country 2023*. <https://worldpopulationreview.com/country-rankings/telegram-users-by->

country

Hughes, D., Kehs, A., & McClosey, P. (2021). PlantVillage Nuru: smallholder farmers in Kenya see income boosts with their personal artificial intelligence assistant. In A. Elbehri & R. Chestnov (Eds.), *Artificial Intelligence for Agriculture* (pp. 34–40). FAO and ITU. <https://doi.org/10.4060/cb7142en>

Humaidi, L. (2020). *The social media utilization and the extension institution role in increasing the competency of agricultural extension agents. [Pemanfaatan media sosial dan peran kelembagaan penyuluhan dalam peningkatan kompetensi penyuluh pertanian]* [Bogor Agricultural University]. <https://repository.ipb.ac.id/handle/123456789/103369>

Ibrahim, A. M., Hassan, M. S., & Gusau, A. L. (2018). Factors influencing acceptance and use of ICT innovations by agribusinesses. *Journal of Global Information Management*, 26(4), 113–134. <https://doi.org/10.4018/JGIM.2018100107>

Ibrahim, A. M., Hassan, S. H., & Yusuf, S. (2017). Factors influencing acceptance and use of ICT innovations by agribusinesses: A conceptual framework. In *Driving Agribusiness With Technology Innovations* (pp. 39–55). IGI Global. <https://doi.org/10.4018/978-1-5225-2107-5.ch003>

Idrus, M. (2009). *Metode Penelitian Ilmu Sosial*. Erlangga. https://scholar.google.co.id/citations?view_op=view_citation&hl=id&user=ZRXYxcMAAAAJ&citation_for_view=ZRXYxcMAAAAJ:0EnyYjriUFMC

Indraningsih, K. S., Septanti, K. S., & Ar-Rozi, A. M. (2020). *Dampak Pandemi Covid-19: Perspektif Adaptasi dan Resiliensi Sosial Ekonomi Pertanian Penyuluhan Pertanian dalam Upaya Pemberdayaan Petani pada Era Pandemi Covid-19 [The Impact of the Covid-19 Pandemic: Perspectives on Adaptation and Socio-Economic Resilie]*. <https://pse.litbang.pertanian.go.id/ind/pdf/files/30-BBRC-2020-IV-2-4-KSI.pdf>

Ives, B., Olson, M. H., & Baroudi, J. J. (1983). The measurement of user information satisfaction. *Communications of the ACM*, 26(10), 785–793. <https://doi.org/10.1145/358413.358430>

Jahanshiri, E., & Walker, S. (2015a). Agricultural knowledge-based systems at the age of semantic technologies. *International Journal of Knowledge Engineering-IACSIT*, 1(1), 64–67. <https://doi.org/10.7763/IJKE.2015.V1.11>

Jahanshiri, E., & Walker, S. (2015b). Agricultural Knowledge-Based Systems at the Age of Semantic Technologies. *International Journal of Knowledge Engineering-IACSIT*, 1(1), 64–67. <https://doi.org/10.7763/IJKE.2015.V1.11>

Jenderal Aplikasi Informatika. (2022). *Status Literasi Digital di Indonesia 2021*. https://cdn1.katadata.co.id/media/microsites/litdik/Status_Literasi_Digital_di

Indonesia _2021_190122.pdf

- Jogiyanto. (2007a). *Sistem Informasi Keperilakuan*. Penerbit Andi.
- Jogiyanto, H. (2007b). *Model kesuksesan sistem teknologi informasi*. Andi.
<https://opac.perpusnas.go.id/DetailOpac.aspx?id=717887>
- Johnson, R. E., Rosen, C. C., & Chang, C. H. (2011). To aggregate or not to aggregate: steps for developing and validating higher-order multidimensional constructs. *Journal of Business and Psychology*, 26(3), 241–248.
<https://doi.org/10.1007/S10869-011-9238-1/TABLES/1>
- Joshi, A., & Kale, S. (2015). Likert Scale: Explored and Explained. *British Journal of Applied Science and Technology*, 7(4).
<https://journalcjast.com/index.php/CJAST/article/view/381/761>
- Jung, T., Chung, N., & Leue, M. C. (2015). The determinants of recommendations to use augmented reality technologies: The case of a Korean theme park. *Tourism Management*, 49, 75–86.
<https://doi.org/10.1016/J.TOURMAN.2015.02.013>
- Data Sekunder Ditjen Tanaman Pangan, (2023).
- Juniarti, H. A., Raya, A. B., Subejo, S., Kaliky, R., & Andarwati, S. (2023). *Propose Framework Determinant and Successful Factor Using Digital Agriculture Extension System (Under review)*.
- Juniarti, H. A., Sari, Y., Salim, I., & Wulandari, N. T. (2022). Analisis Time Series Adopsi Pengguna Desa Apps berdasarkan Dataset dan Prediksi Adopter Menggunakan Model ARIMA [Time series analysis of Desa Apps User adoption based on dataset and adopter predictions using the ARIMA Model]. *Seminar Nasional Hasil Penelitian Sosial Ekonomi Pertanian*.
- Kaliky, R., Juniarti, H. A., & Kusumawati, S. (2023). *Laporan akhir pelaksanaan penelitian, model niat dan perilaku penyuluh terhadap bimtek digital kementerian pertanian pasca pandemi Covid-19 menunjang kompetensi penyuluh dan pembangunan pertanian di DIY*.
- Kaplan, A. M., & Haenlein, M. (2010). Users of the world, unite! The challenges and opportunities of Social Media. *Business Horizons*, 53(1), 59–68.
<https://doi.org/10.1016/J.BUSHOR.2009.09.003>
- Karahanna, E., Straub, D. W., & Chervany, N. L. (1999). Information technology adoption across time: A cross-sectional comparison of pre-adoption and post-adoption beliefs. *MIS Quarterly: Management Information Systems*, 23(2), 183–213. <https://doi.org/10.2307/249751>
- Karima, A. N., Nursyamsi, I., & Umar, F. (2018). Pengaruh Masa Kerja, Pelatihan dan Motivasi Terhadap Produktivitas Kerja Karyawan pada PT. Bank

Sulselbar Cabang Utama Makassar [The Effect of Tenure, Training and Motivation on Employee Productivity at Main Branch PT Bank Sulselbar Makassar]. *Hasanuddin Journal of Applied Business and Entrepreneurship*, 1(4), 83–95. <https://doi.org/10.26487/HJABE.V1I4.133>

Kelman, H. C. (1958). Compliance, identification, and internalization three processes of attitude change.

Http://Dx.Doi.Org/10.1177/002200275800200106, 2(1), 51–60.

<https://doi.org/10.1177/002200275800200106>

Kementan, B. P. S. J. (2020). *Rencana Strategis Kementerian Pertanian 2020-2024*. [https://ppid.pertanian.go.id/doc/1/Draft Renstra 2020-2024 edited BAPPENAS \(Final\).pdf](https://ppid.pertanian.go.id/doc/1/Draft%20Renstra%2020-2024%20edited%20BAPPENAS%20(Final).pdf)

Khan, F. M., Singh, N., Gupta, Y., Kaur, J., Banik, S., & Gupta, S. (2022a). A Meta-analysis of Mobile Learning Adoption in Higher Education Based on Unified Theory of Acceptance and Use of Technology 3 (UTAUT3). <https://doi.org/10.1177/09722629221101159>

Khan, F. M., Singh, N., Gupta, Y., Kaur, J., Banik, S., & Gupta, S. (2022b). A Meta-analysis of Mobile Learning Adoption in Higher Education Based on Unified Theory of Acceptance and Use of Technology 3 (UTAUT3). *Vision*. <https://doi.org/10.1177/09722629221101159>

Kim, S. S., & Malhotra, N. K. (2005). A Longitudinal Model of Continued IS Use: An Integrative View of Four Mechanisms Underlying Postadoption Phenomena. *Http://Dx.Doi.Org/10.1287/Mnsc.1040.0326*, 51(5), 741–755. <https://doi.org/10.1287/MNSC.1040.0326>

Kipkurgat, T., Onyiego, M., & Chemwaina, S. (2016). Impact of social media on agricultural extension in Kenya: a case of Kesses District. *International Journal of Agricultural Extension and Rural Development Studies*, 3(1), 30–36. <https://www.researchgate.net/profile/Mohammad-Mehdizadeh-3/post/How-social-media-can-play-an-key-role-in-agricultural-extension/attachment/5c3631f83843b006754f9ae7/AS%3A713217068249088%401547055608117/download/Impact-of-Social-Media-on-Agricultural-Extens>

Klerkx, L. (2020). Advisory services and transformation, plurality and disruption of agriculture and food systems: towards a new research agenda for agricultural education and extension studies. *Journal of Agricultural Education and Extension*, 26(2), 131–140. <https://doi.org/10.1080/1389224X.2020.1738046>

Klerkx, L. (2021a). Digital and virtual spaces as sites of extension and advisory services research: social media, gaming, and digitally integrated and augmented advice. *Journal of Agricultural Education and Extension*, 27(3), 277–286. <https://doi.org/10.1080/1389224X.2021.1934998>

- Klerkx, L. (2021b). Digital and virtual spaces as sites of extension and advisory services research: social media, gaming, and digitally integrated and augmented advice. *The Journal of Agricultural Education and Extension*, 27(3), 277–286. <https://doi.org/10.1080/1389224X.2021.1934998>
- Klerkx, L., Jakku, E., & Labarthe, P. (2019). A review of social science on digital agriculture, smart farming and agriculture 4.0: New contributions and a future research agenda. *NJAS: Wageningen Journal of Life Sciences*, 90–91(1). <https://doi.org/10.1016/J.NJAS.2019.100315>
- Kotov, A., Bennett, P., White, R. W., Dumais, S. T., & Teevan, J. (2011). Modeling and analysis of cross-session search tasks. *In Proceedings of SIGIR*, 5–14.
- Kummer, B., Karan, R., & Rupavathara, S. (2021). Plantix - your crop doctor: every month around one million smallholder farmers use the Plantix app to grow healthier crops. In A. Elbehri & R. Chestnov (Eds.), *Artificial Intelligence for Agriculture* (pp. 19–28). FAO and ITU. <https://doi.org/10.4060/cb7142en>
- Kuo, R. Z. (2020). Why do people switch mobile payment service platforms? An empirical study in Taiwan. *Technology in Society*, 62, 101312. <https://doi.org/10.1016/J.TECHSOC.2020.101312>
- Kwon, J. H., & You, S. Y. (2023). Early Dementia: Content Analysis of the Information Provided by YouTube Videos in Korea. *The Journal for Nurse Practitioners*, 19(5). <https://doi.org/10.1016/J.NURPRA.2023.104589>
- Laksmiyati, N., & Meiranto, W. (2015). Analisis faktor-faktor yang mempengaruhi kinerja individu pengguna sistem informasi dengan menggunakan Model Delone dan Mclean (Studi empiris pada pengguna aplikasi sistem informasi akuntansi di BNI). *Diponegoro Journal of Accounting*, 4(2). <https://ejournal3.undip.ac.id/index.php/accounting/article/view/16522>
- Lau, T., & Horvitz, E. (1999). Patterns of Search: Analyzing and Modeling Web Query Refinement. *Proceedings of User Modeling*.
- Lecun, Y., Bengio, Y., & Hinton, G. (2015). Deep learning. *Nature*, 521(7553), 436–444. <https://doi.org/10.1038/nature14539>
- Lee, J. C., & Xiong, L. (2018). Exploring the effects of the quality of applications (apps) on computer anxiety and student engagement: A preliminary study. *ACM International Conference Proceeding Series*, 44–48. <https://doi.org/10.1145/3301761.3301764>
- Lee, M. C. (2009). Factors influencing the adoption of internet banking: An integration of TAM and TPB with perceived risk and perceived benefit. *Electronic Commerce Research and Applications*, 8, 130–141.

<https://doi.org/10.1016/j.elerap.2008.11.006>

- Lee, Y., Kozar, K. A., & Larsen, K. R. T. (2003). The Technology Acceptance Model: Past, Present, and Future. *Communications of the Association for Information Systems*, 12(1). <https://aisel.aisnet.org/cais/vol12/iss1/50/>
- Lengyel, B., Bokányi, E., Clemente, R. Di, & Kertész, J. (2020). The Role of Geography in the Complex Diffusion of Innovations. In *Nature Scientific Report* (Vol. 10). <https://doi.org/10.1038/s41598-020-72137-w>
- Leong, L. Y., Hew, T. S., Ooi, K. B., Lee, V. H., & Hew, J. J. (2019). A hybrid SEM-neural network analysis of social media addiction. *Expert Systems with Applications*, 133, 296–316. <https://doi.org/10.1016/J.ESWA.2019.05.024>
- Limayem, M., Hirt, S. G., & Cheung, C. M. K. (2007). How Habit Limits the Predictive Power of Intention: The Case of Information Systems Continuance. *MIS Quarterly*, 31(4). <https://www.jstor.org/stable/pdf/25148817.pdf>
- Limenih, B. (2018). Agricultural knowledge, source and information system in central highland of Ethiopia. *Journal of Agricultural Extension and Rural Development*, 10(2), 28–34. <https://doi.org/10.5897/JAERD2017.0908>
- Listiana, I. (2018). *Effect of information technology use on the capacity of extension officer in Lampung Province. [Pengaruh pemanfaatan teknologi informasi terhadap kapasitas penyuluh di Provinsi Lampung]* [Bogor Agricultural University]. <https://repository.ipb.ac.id/handle/123456789/92543>
- Liu, Y., Li, Q., Edu, T., & Negricea, I. C. (2020). Exploring the continuance usage intention of travel applications in the case of Chinese tourists. *Journal of Hospitality & Tourism Research*. <https://doi.org/10.1177/1096348020962553>
- Liu, Y., & Wang, T. (2022). Quality factors and performance outcome of cloud-based marketing system. *Kybernetes*, 51(1), 485–503. <https://doi.org/10.1108/K-11-2020-0778/FULL/PDF>
- Lohmöller, J.-B. (2013). *Latent variable path modeling with partial least squares*. Springer Science & Business Media. https://books.google.com/books/about/Latent_Variable_Path_Modeling_with_Part.html?id=xU_mCAAQBAJ
- Ma, Y. (2021). Elucidating determinants of customer satisfaction with live-stream shopping: An extension of the information systems success model. *Telematics and Informatics*, 65, 101707. <https://doi.org/10.1016/J.TELE.2021.101707>
- Madathil, K. C., Rivera-Rodriguez, A. J., Greenstein, J. S., & Gramopadhye, A.

- K. (2015). Healthcare information on YouTube: A systematic review. *Health Informatics Journal*, 21(3), 173–194.
https://doi.org/10.1177/1460458213512220/ASSET/IMAGES/LARGE/10.1177_1460458213512220-FIG1.JPEG
- Makmur, A. A. H., & Agunawan, A. (2021). Efektifitas pelatihan online di Balai Besar Pelatihan Pertanian (BBPP) Batangkaluku. *Inspiration: Jurnal Teknologi Informasi Dan Komunikasi*, 11(1), 71–79.
<https://doi.org/10.35585/INSPIR.V11I1.2601>
- Mathieson, K. (1991). Predicting user intentions: comparing the technology acceptance model with the Theory of Planned Behavior. *Information Systems Research*, 2(3), 173–191. <https://doi.org/10.1287/ISRE.2.3.173>
- Maulana, F., Maulana, F., Sularso, R. A., & Titisari, P. (2018). Analisis pengaruh knowledge sharing dalam penerapan sistem manajemen mutu ISO 9001:2008 terhadap kinerja inovasi dan kinerja karyawan. *Jurnal Manajemen Dan Kewirausahaan*, 6(1), 57–69. <https://doi.org/10.26905/jmdk.v6i1.2045>
- McGill, T., Hobbs, V., & Klobas, J. (2003). User Developed Applications and Information Systems Success: A Test of DeLone and McLean's Model. *Inf. Resour. Manag. J.*, 16(1), 24–45. <https://doi.org/10.4018/IRMJ.2003010103>
- McGregor, S. L. T. (2018). Conceptual frameworks, theories, and models. In *Understanding and Evaluating Research: A Critical Guide* (pp. 51–91). SAGE Publications. <https://doi.org/10.4135/9781071802656.n3>
- Meade, N., & Islam, T. (2006). Modelling and forecasting the diffusion of innovation - A 25-year review. *International Journal of Forecasting*, 22(3), 519–545. <https://doi.org/10.1016/J.IJFORECAST.2006.01.005>
- Media Indonesia. (2022, June 23). Di era Mentan SYL, sektor pertanian cetak rekor MURI untuk tiga kategori sekaligus. *Media Indonesia*.
<https://mediaindonesia.com/ekonomi/501439/di-era-mentan-syl-sektor-pertanian-cetak-rekor-muri-untuk-tiga-kategori-sekaligus>
- Michels, M., Bonke, V., & Musshoff, O. (2020). Understanding the adoption of smartphone apps in crop protection. *Precision Agriculture*, 21(6), 1209–1226. <https://doi.org/10.1007/S11119-020-09715-5/TABLES/6>
- Mohr, S., & Kühn, R. (2021). Acceptance of artificial intelligence in German agriculture: an application of the technology acceptance model and the theory of planned behavior. *Precision Agriculture*, 22(6), 1816–1844.
<https://doi.org/10.1007/S11119-021-09814-X/TABLES/13>
- Molina-Maturano, J., Verhulst, N., Tur-Cardona, J., Güereña, D. T., Gardeazábal-Monsalve, A., Govaerts, B., & Speelman, S. (2021). *Understanding Smallholder Farmers' Intention to Adopt Agricultural Apps: The Role of Mastery Approach and Innovation Hubs in Mexico*.

<https://doi.org/10.3390/agronomy11020194>

- Moore, G. C., & Benbasat, I. (1991). Development of an instrument to measure the perceptions of adopting an information technology innovation. *Information Systems Research*, 2(3), 192–222. <https://doi.org/10.1287/ISRE.2.3.192>
- Moore, G. C., & Benbasat, I. (1996). Integrating Diffusion of Innovations and Theory of Reasoned Action models to predict utilization of information technology by end-users. In *Diffusion and Adoption of Information Technology* (pp. 132–146). Springer. https://doi.org/10.1007/978-0-387-34982-4_10
- Mustika, H., Eliyana, A., Agustina, T. S., & Ratnasari, R. T. (2020). Knowledge sharing behavior between self-leadership and innovative behavior. *Journal of Security and Sustainability Issues*, 9, 148–157. [https://doi.org/10.9770/jssi.2020.9.M\(12\)](https://doi.org/10.9770/jssi.2020.9.M(12))
- Muzakir, A., Hamid, E., & Muchlis, F. (2022). Hubungan Pemanfaatan Internet Dengan Kinerja Penyuluh Pertanian Pada Kelompok Tani Pangan | Journal of Agribusiness and Local Wisdom. *Journal Agribusiness And Local Wisdom*, 5(1). <https://online-journal.unja.ac.id/JALOW/article/view/19743>
- Narine, L. K., Harder, A., & Roberts, T. G. (2019). Farmers' intention to use text messaging for extension services in Trinidad. *The Journal of Agricultural Education and Extension*, 25(4), 293–306. <https://doi.org/10.1080/1389224X.2019.1629970>
- Nasir, M. (2013). Evaluasi penerimaan teknologi informasi mahasiswa di Palembang menggunakan Model UTAUT. *Seminar Nasional Aplikasi Teknologi Informasi (SNATI) 2013*. <https://journal.uui.ac.id/Snati/article/view/3006/2770>
- Nitzl, C., Roldan, J. L., & Cepeda, G. (2016). Mediation analysis in partial least squares path modeling: Helping researchers discuss more sophisticated models. *Industrial Management & Data Systems*, 116(9), 1849–1864. <https://doi.org/10.1108/IMDS-07-2015-0302>
- Nochta, T., Badstuber, N., & Wahby, N. (2019). *On the Governance of City Digital Twins-Insights from the Cambridge case study*. <https://doi.org/10.17863/CAM.41083>
- Nugroho, R. A., Raras, R. A., & Rahmawati, A. A. (2022). The Acceptance of Technology in Agriculture: case in Dalangan Village. *2021 IEEE 7th Information Technology International Seminar (ITIS)*, 1–6. <https://doi.org/10.1109/ITIS53497.2021.9791535>
- Okpala, I., Nnaji, C., Awolusi, I., & Akanmu, A. (2021). Developing a success model for assessing the impact of wearable sensing devices in the

construction industry. *Journal of Construction Engineering and Management*, 147(7), 04021060. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0002064](https://doi.org/10.1061/(ASCE)CO.1943-7862.0002064)

Oliveira, T., Thomas, M., Baptista, G., & Campos, F. (2016). Mobile payment: Understanding the determinants of customer adoption and intention to recommend the technology. *Computers in Human Behavior*, 61, 404–414. <https://doi.org/10.1016/J.CHB.2016.03.030>

Ortiz-Ospina, E. (2023). The rise of social media. In *Our World in Data* (Vol. 35, Issue 9). <https://doi.org/10.1080/00139157.1993.9929122>

Park, S. Y. (2009). An analysis of the technology acceptance model in understanding university students' behavioral intention to use e-Learning. *Educational Technology & Society*. <http://www.sciepub.com/reference/129950>

Peraturan Presiden. (2022, March 4). *PERPRES No. 35 Tahun 2022 tentang Penguatan Fungsi Penyuluhan Pertanian*. <https://peraturan.bpk.go.id/Home/Details/201275/perpres-no-35-tahun-2022>

Permentan. (2019). *Permentan No. 21 tahun 2019 tentang uraian tugas pekerjaan pejabat pengawas, pejabat fungsional peneliti, teknisi penelitian dan perekayasa, dan penyuluh pertanian pada Balai Pengkajian Teknologi Pertanian*. <https://peraturan.bpk.go.id/Home/Details/201252/permentan-no-21-tahun-2019>

Pertanian), B. (Badan P. dan P. (2018). *Peningkatan Kapasitas Penyuluh dan Diseminasi Inovasi Pertanian* (1st ed.). BBP2TP.

Pluck, G., & Johnson, H. (2011). Stimulating curiosity to enhance learning. *GESJ: Education Science and Psychology*, 2(19). <https://eprints.whiterose.ac.uk/>

Polites, G. L., Roberts, N., & Thatcher, J. (2012). Conceptualizing models using multidimensional constructs: a review and guidelines for their use. *European Journal of Information Systems*, 21(1), 22–48. <https://doi.org/10.1057/EJIS.2011.10>

Prananta, Y. E., Ashari, & Sumarwono, S. (2014). Analisis kesuksesan implementasi sistem informasi kementerian kehutanan di Papua Barat. *Seminar Nasional Teknologi Informasi Dan Multimedia 2014*, 111–114. <https://ojs.amikom.ac.id/index.php/semnasteknomedia/article/viewFile/313/297>

Pryima, S. M., Strokan, O. V., Rogushina, J. V., Gladun, A. Y., Lubko, D. V., & Malkina, V. M. (2020a). Ontological analysis of outcomes of non-formal and informal learning for agro-advisory system AdvisOnt. *International Conference on Technologies and Innovation*, 3–17. <https://bunker2.zlibcdn.com/dtoken/09307aa2729ea51c872931e1b3912be4/T>

technologies and Innovation 6th International Conference%2C CITI
2020%2C Guayaquil%2C Ecuador%2C November 30 – December 3%2C
2020%2C... %28Rafael Valencia-García%2C Gema Alcaraz-Marmol et

Pryima, S. M., Strokan, O. V., Rogushina, J. V., Gladun, A. Y., Lubko, D. V., & Malkina, V. M. (2020b). Ontological Analysis of Outcomes of Non-formal and Informal Learning for Agro-Advisory System AdvisOnt. *International Conference on Technologies and Innovation*, 3–17.

<https://bunker2.zlibcdn.com/dtoken/09307aa2729ea51c872931e1b3912be4/T>
technologies and Innovation 6th International Conference%2C CITI
2020%2C Guayaquil%2C Ecuador%2C November 30 – December 3%2C
2020%2C... %28Rafael Valencia-García%2C Gema Alcaraz-Marmol et

Purwatiningsih, N. A., Fatchiya, A., & Hartati, R. S. (2018). Pemanfaatan internet dalam meningkatkan kinerja penyuluh pertanian di Kabupaten Cianjur. *Jurnal Penyuluhan*, X.

<https://journal.ipb.ac.id/index.php/jupe/article/view/17173/14482>

Pushparaj, N., Sivakumar, V. J., Natarajan, M., & Bhuvaneskumar, A. (2022). Two decades of DeLone and Mclean IS success model: a scientometrics analysis. *Quality & Quantity*. <https://link-springer-com.ezproxy.ugm.ac.id/content/pdf/10.1007/s11135-022-01464-z.pdf>

Putra, G., & Ariyanti, M. (2014). Pengaruh faktor-faktor dalam Modified Unified Theory of Acceptance and Use of Technology 2 (UTAUT 2) terhadap niat prospective users untuk mengadopsi home digital services PT. Telkom di Surabaya. *Jurnal Manajemen Indonesia*, 14(1), 59–76.
<https://doi.org/10.25124/JMI.V14I1.352>

Rahi, S., Khan, M. M., & Alghizzawi, M. (2020). Factors influencing the adoption of telemedicine health services during COVID-19 pandemic crisis: an integrative research model. *Https://Doi.Org/10.1080/17517575.2020.1850872*, 15(6), 769–793.
<https://doi.org/10.1080/17517575.2020.1850872>

Rahman, A., & Dewantara, R. Y. (2017). Pengaruh kemudahan penggunaan dan kemanfaatan teknologi informasi terhadap minat. *Jurnal Administrasi Bisnis*, 52(1), 1–7.
<http://administrasibisnis.studentjournal.ub.ac.id/index.php/jab/article/view/2149>

Raj, M., Gupta, S., Chamola, V., Elhence, A., Garg, T., Atiquzzaman, M., & Niyato, D. (2021). A survey on the role of Internet of Things for adopting and promoting Agriculture 4.0. *Journal of Network and Computer Applications*, 187(103107). <https://doi.org/10.1016/J.JNCA.2021.103107>

Ramadhan, D., Hurriyati, R., & Lisnawati, L. (2019). ANALISIS PERILAKU ADOPTSI TEKNOLOGI MOBILE WALLET MENGGUNAKAN MODEL

UNIFIED THEORY OF ACCEPTANCE AND USE OF TECHNOLOGY3 (UTAUT3) (Survei Pengguna OVO pada Generasi Milenial di Indonesia).

Journal of Business Management Education (JBME), 4(3), 23–29.

<https://doi.org/10.17509/JBME.V4I3.18659>

Raman, A., & Don, Y. (2013). Preservice teachers' acceptance of learning management software: An application of the UTAUT2 Model. *International Education Studies*, 6(7), 157–164. <https://doi.org/10.5539/ies.v6n7p157>

Rand, W., & Rust, R. T. (2011). Agent-based modeling in marketing: Guidelines for rigor. *International Journal of Research in Marketing*, 28(3), 181–193. <https://doi.org/10.1016/J.IJRESMAR.2011.04.002>

Razzaq, F. (2021). *Tingkat keberhasilan sistem informasi keuangan daerah dengan menggunakan Model Delone & Mclean dan Theory of Planned Behaviour* [Universitas Islam Indonesia]. https://dspace.uui.ac.id/bitstream/handle/123456789/31715/17312105_FathurRazzaq.pdf?sequence=1

Rigdon, E. E. (2012). Rethinking Partial Least Squares Path Modeling: In Praise of Simple Methods. *Long Range Planning*, 45(5–6), 341–358. <https://doi.org/10.1016/J.LRP.2012.09.010>

Rijswijk, K., Klerkx, L., Bacco, M., Bartolini, F., Bulten, E., Debruyne, L., Dessein, J., Scotti, I., & Brunori, G. (2021). Digital transformation of agriculture and rural areas: A socio-cyber-physical system framework to support responsabilisation. *Journal of Rural Studies*, 85, 79–90. <https://doi.org/10.1016/J.JRURSTUD.2021.05.003>

Rijswijk, K., Klerkx, L., & Turner, J. A. (2019). Digitalisation in the New Zealand Agricultural Knowledge and Innovation System: Initial understandings and emerging organisational responses to digital agriculture. <https://doi.org/10.1016/j.Njas.2019.100313>, 90–91(1). <https://doi.org/10.1016/J.NJAS.2019.100313>

Robert Wall, E. (2020). Regression Analysis and Adjusted R 2. *Journal of Visual Impairment and Blindness*, 114(4), 332–333. <https://doi.org/10.1177/0145482X20939786>

Rogers, E. M. (1995). *Diffusion of Innovations*. Free Press.

Rogers, E. M. (2003). *Diffusion of Innovations* (5th ed.). Free Press. <https://books.google.co.id/books?id=9U1K5LjUOwEC&printsec=frontcover#v=onepage&q&f=false>

Rogers, E. M., & Shoemaker, F. F. (1971). *Communication of innovations : a cross-cultural approach*. 476. https://books.google.com/books/about/Communication_of_Innovations.html?id=csCyAAAAIAAJ

- Röling, N. G. (1988). *Extension science, information systems in agricultural development*. Cambridge University Press.
- Romney, M. B., & Steinbart, P. J. (2018). Accounting information systems. In *Information Technology and Innovation Trends in Organizations - ItAIS: The Italian Association for Information Systems* (14th ed.). Pearson.
https://books.google.co.id/books/about/Accounting_Information_Systems.html?hl=id&id=Y7cXvgAACAAJ&redir_esc=y
- Rose, D. C., Morris, C., Lobley, M., Winter, M., Sutherland, W. J., & Dicks, L. V. (2018). Exploring the spatialities of technological and user re-scripting: the case of decision support tools in UK agriculture. *Geoforum*, 89, 11–18.
- Samarasinghe, S. (2006). Neural Networks for Applied Sciences and Engineering : From Fundamentals to Complex Pattern Recognition. In *Neural Networks for Applied Sciences and Engineering* (1st ed.). Auerbach Publications. <https://doi.org/10.1201/9780849333750>
- Sari, A. F. (2022). Kendala dan Efek Komunikasi dalam Perkuliahan Online di Masa Pandemi Covid-19. *Jurnal Informatikadan Teknologi Pendidikan*, 2. <http://www.jurnalitp.web.id/index.php/jitp/article/view/23/13>
- Sarstedt, M., Hair, J. F., Cheah, J. H., Becker, J. M., & Ringle, C. M. (2019). How to specify, estimate, and validate higher-order constructs in PLS-SEM. *Australasian Marketing Journal*, 27(3), 197–211.
<https://doi.org/10.1016/J.AUSMJ.2019.05.003>
- Sarstedt, M., Hair, J. F., Nitzl, C., Ringle, C. M., & Howard, M. C. (2020). Beyond a tandem analysis of SEM and PROCESS: Use of PLS-SEM for mediation analyses! *International Journal of Market Research*, 62(3), 288–299.
https://doi.org/10.1177/1470785320915686/ASSET/IMAGES/LARGE/10.1177_1470785320915686-FIG2.JPEG
- Sarstedt, M., Ringle, C. M., & Hair, J. F. (2021). Partial Least Squares Structural Equation Modeling. In Homburg, C., M. Klarmann, & A. E. Vomberg (Eds.), *Handbook of Market Research* (pp. 1–47). Springer, Cham.
https://doi.org/10.1007/978-3-319-05542-8_15-2
- Sasmito, M. (2015). Pemanfaatan media sosial facebook untuk media pembelajaran Bahasa Indonesia. *Metafora: Jurnal Pembelajaran Bahasa Dan Sastra*, 1(2). <https://doi.org/10.30595/MTF.V1I2.280>
- Sayruamyat, S., & Nadee, W. (2020). Acceptance and Readiness of Thai Farmers Toward Digital Technology. In *Smart Innovation, Systems and Technologies* (Vol. 165, pp. 75–82). Springer. https://doi.org/10.1007/978-981-15-0077-0_8/COVER/
- Schillewaert, N., Ahearne, M. J., Frambach, R. T., & Moenaert, R. K. (2005). The

adoption of information technology in the sales force. *Industrial Marketing Management*, 34(4 SPEC ISS.), 323–336.

<https://doi.org/10.1016/J.INDMARMAN.2004.09.013>

Schlosberg, D., Collins, L. B., & Niemeyer, S. (2017). Adaptation policy and community discourse: risk, vulnerability, and just transformation. *Environmental Politics*, 26(3), 413–437.

<https://doi.org/10.1080/09644016.2017.1287628>

Sheu Wang-Chan Wong, M. Z. (2006). A knowledge assimilation schema for acquiring technical knowledge. *Journal of Information Systems Education; Summer*, 17(2).

<https://aisel.aisnet.org/cgi/viewcontent.cgi?article=1444&context=jise>

Shmueli, G., & Koppius, O. R. (2011). Predictive Analytics in Information Systems Research. *MIS Quarterly*, 35(3), 553–572.

https://www.jstor.org/stable/pdf/23042796.pdf?casa_token=k-VIZCQLy_4AAAAA:UDHT8LuCy9852qslEZJIhPgAom7M42blnUpLuW8mczjdFir37wgTF3DCF19bfR_ssx7ngTK5PxoqTpLWCGVwpfkq8EAd2eQ-i08isIZd4cwWTmUS7w

Sholihin, M., & Ratmono, D. (2021). *Analisis SEM-PLS dengan WarpPLS 7.0 untuk hubungan nonlinier dalam penelitian sosial dan bisnis*.

https://books.google.co.id/books?id=NbMWEAAQBAJ&printsec=copyright&redir_esc=y#v=onepage&q&f=false

Siagian. (2008). *Manajemen Sumber Daya Manusia [Human Resources Management]*. Bumi Aksara.

Siagian, S. P. (2012). *Manajemen Sumber Daya Manusia*. Bumi Aksara.

Silmi, M., & Kusmarni, Y. (2017). Menumbuhkan karakter rasa ingin tahu siswa dalam pembelajaran sejarah melalui media puzzle. *FACTUM: Jurnal Sejarah Dan Pendidikan Sejarah*, 6(2).

<https://doi.org/10.17509/FACTUM.V6I2.9980>

Simamora, B. (2003). *Memenangkan pasar dengan pemasaran efektif dan profitabel*. Gramedia Pustaka Utama.

https://scholar.google.co.id/citations?view_op=view_citation&hl=en&user=S3bpBIIAAAAJ&sortby=pubdate&citation_for_view=S3bpBIIAAAAJ:ZeXyd9-uunAC

Spector, E. P. (1992). Summated rating scale construction. In *Summated Rating Scale Construction*. SAGE Publications, Inc.

<https://doi.org/10.4135/9781412986038>

Subejo. (2020). Quo Vadis Strategi Komunikasi Pembangunan Pertanian di Indonesia. In M. Kriska, R. Andiani, & A. Arisma (Eds.), *Bunga Rampai Pembangunan Pertanian Indonesia: Peningkatan Daya Saing dan*

Penguatan Kelembagaan Pertanian untuk Keberlanjutan Pertanian

Indonesia (p. 215). Impulse.

https://drive.google.com/file/d/1VihejWF_xjSQZ9Yz6ICbKdNI90uJJN4u/view

Subejo, Wati, R. I., Kriska, M., Akhda, N. T., Christian, A. I., Wimatsari, A. D., & Penggalih, P. M. (2018). Akses, Penggunaan, dan Faktor Penentu Pemanfaatan Teknologi Informasi dan Komunikasi pada Kawasan Pertanian Komersial untuk Mendukung Ketahanan Pangan di Perdesaan Yogyakarta. *Jurnal Ketahanan Pangan*, 24(1), 60–76.
<https://pdfs.semanticscholar.org/9b91/dd446717f6c51d93359d4a2fdfe8f79ba7af.pdf>

Sugihono, C., Juniarti, H. A., & Nugroho, N. C. (2022). Digital Transformation in The Agriculture Sector: Exploring The Shifting Role of Extension Workers. *STI Policy and Management Journal*, 7(2).
<https://doi.org/10.14203/STIPM.2022.350>

Sugiyono. (2014). *Metode penelitian pendidikan pendekatan kuantitatif, kualitatif, dan R&D*. Alfabeta.

Sugiyono. (2017). *Metode penelitian dan pengembangan untuk bidang pendidikan, manajemen, sosial, teknik : Research and development/ R&D* (3rd ed.). Alfabeta.

Sugiyono. (2018). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Alfabeta.

Sugiyono. (2019). *Statistika untuk Penelitian*. Alfabeta.

Supriyanto. (2005). *Pengaruh pengawasan dan semangat kerja terhadap produktivitas kerja karyawan PT. Delta Marlin Dunia Tekstil di Karanganyar*. Universitas Muhammadiyah Surakarta.

Surendran, P. (2012). View of Technology Acceptance Model: A Survey of Literature. *The Journal of Business*, 2(4), 1–4.
<https://doi.org/https://doi.org/10.18533/ijbsr.v2i4.161>

Suryanda, A., Heryanti, E., Khairunnisa, F., Kunci, K., Diri, K., Ingin Tahu, R., & Berprestasi Siswa, M. (2022). Are self-confidence and curiosity in studying biology related to achievement motivation? Article Information. *Jurnal Biologi-Inovasi Pendidikan*, 4(2), 134–140.
<https://doi.org/10.20527/bino.v4i2.12576>

Sutanto, Ghazali, I., & Handayani, S. (2018). Faktor-faktor yang memengaruhi penerimaan dan penggunaan Sistem Informasi Pengelolaan Keuangan Daerah (SIPKD) dalam perspektif the Unified Theory of Acceptance and Use of Technology 2 (UTAUT 2) di Kabupaten Semarang. *Jurnal Akuntansi Dan Auditing*, 15(1).
<https://ejournal.undip.ac.id/index.php/akuditi/article/download/20485/13904>

- Syahlani, S. P., Haryadi, F. T., Abdillah, W., & Widyaswara, A. S. (2019). The role of education in social media adoption of small and medium livestock-based food enterprises . *IOP Conference Series: Earth Environmental Science*, 387, 12049. <https://doi.org/10.1088/1755-1315/387/1/012049>
- Syahnur, K. N. F., & Dharsana, M. T. (2022). Analisis kesuksesan penerapan e-filing menggunakan model kesuksesan sistem informasi DeLone dan McLean . *SEIKO : Journal of Management & Business*, 5(2), 362–370. <https://doi.org/10.37531/SEJAMAN.V5I2.2010>
- Syaripudin, A., Ahmad, D., Ningrum, W., Banyumurti, & Magdalena. (2017). *Seri buku literasi digital-kerangka literasi digital Indonesia*. Kemdikbud. www.literasidigital.id.
<https://drive.google.com/file/d/1uQ0tulqcKYmJ1jfbSRHrVaTNOOucSUPI/view>
- Taiwo, A. A., & Downe, A. G. (2013). The theory of User Acceptance and Use of Technology (UTAUT): a meta-analytic review of empirical findings. *Journal of Theoretical and Applied Information Technology*, 10(1). www.jatit.org
- Taylor, S., & Todd, P. A. (1995a). Assessing IT Usage: The Role of Prior Experience. *MIS Quarterly: Management Information Systems*, 19(2), 561–570.
- Taylor, S., & Todd, P. A. (1995b). Understanding Information Technology Usage: A Test of Competing Models. *Information Systems Research*, 6(2), 144–176. https://www.jstor.org/stable/pdf/23011007?casa_token=VuTihp9P49kAAAAA:jA_UoAMjKx4RsgUcUu_hy61j28e1l_-avzs7uRdWl4p0fWPxRX6UXECCZN7tDJ9c34eHXbUQVzYS6OzbRAgdSpuwnKV_BT_utM-wEE1kU8d1gZY0JczoLQ
- Telegram. (2023). *Telegram Messenger*. <https://telegram.org/>
- Thanos, J. G. E. (2021). *Analisis manfaat penerapan sistem informasi desa di Kabupaten Bantul* [UNIVERSITAS GADJAH MADA]. <http://etd.repository.ugm.ac.id/penelitian/detail/203773>
- Thatcher, J. B., & Perrewé, P. L. (2002). An empirical examination of individual traits as antecedents to computer anxiety and computer self-efficacy. *MIS Quarterly: Management Information Systems*, 26(4), 381–396. <https://doi.org/10.2307/4132314>
- Thompson, R. L., Higgins, C. A., & Howell, J. M. (1991). Personal Computing: Toward a Conceptual Model of Utilization. *MIS Quarterly*, 15(1), 125–143. <https://www.jstor.org/stable/pdf/249443.pdf>
- Thompson, R. L., Higgins, C. A., & Howell, J. M. (1994). Influence of Experience on Personal Computer Utilization: Testing a Conceptual Model. <https://doi-org.ezproxy.ugm.ac.id/10.1080/07421222.1994.11518035>,

11(1), 167–187. <https://doi.org/10.1080/07421222.1994.11518035>

Thong, J. Y. L., Hong, S. J., & Tam, K. Y. (2006). The effects of post-adoption beliefs on the expectation-confirmation model for information technology continuance. *International Journal of Human-Computer Studies*, 64(9), 799–810. <https://doi.org/10.1016/j.IJHCS.2006.05.001>

Thongsri, N., Shen, L., & Bao, Y. (2019). Investigating factors affecting learner's perception toward online learning: evidence from ClassStart application in Thailand. *Behaviour & Information Technology*, 38(12), 1243–1258. <https://doi.org/10.1080/0144929X.2019.1581259>

TikTok. (2023). TikTok - Apps on Google Play. In *Google Play*. <https://play.google.com/store/apps/details?id=com.ss.android.ugc.trill&gl=US>

Triandis, H. (1980). Values, attitudes, and interpersonal behavior. *Nebraska Symposium on Motivation*. <https://www.semanticscholar.org/paper/Values%2C-attitudes%2C-and-interpersonal-behavior.-Triandis/653af38732f20d3386178b16f7b49ed359acfe1f>

Twitter. (2023). *Pertanyaan Umum pengguna baru*. <https://help.twitter.com/id/resources/new-user-faq>

Vajjhala, N. R. (2021). Introduction to Agricultural Information Systems. In F. Che, K. Strang, & N. Vajjhala (Eds.), *Opportunities and Strategic Use of Agribusiness Information Systems* (pp. 1–12). IGI Global. <https://doi.org/10.4018/978-1-7998-4849-3.ch001>

Van Der Heijden, H. (2004). User acceptance of hedonic information systems. *MIS Quarterly: Management Information Systems*, 28(4), 695–704. <https://doi.org/10.2307/25148660>

Venkatesh, V., & Bala, H. (2008). Technology Acceptance Model 3 and a Research Agenda on Interventions. *Decision Sciences*, 39(2), 273–315. <https://doi.org/10.1111/J.1540-5915.2008.00192.X>

Venkatesh, V., & Davis, F. D. (2000). A Theoretical Extension of the Technology Acceptance Model: Four Longitudinal Field Studies. *Management Science*, 46, 186–204. <https://www.jstor.org/stable/2634758>

Venkatesh, V., Morris, M. G., Davis, G. B., & Davis, F. D. (2003). User Acceptance of Information Technology: Toward a Unified View. *MIS Quarterly*, 27(3), 425–478. <https://deliverypdf.ssrn.com/delivery.php?ID=947007004017108108100094127091090095051048070010086053068071087121124016126107083107029048119010012112117109098012084075112080006027045011092091098118066025028090077038058055083113121030031002024094119013015066>

- Venkatesh, V., Thong, J. Y. L., & Xu, X. (2012). Consumer Acceptance and Use of Information Technology: Extending the Unified Theory of Acceptance and Use of Technology. *MIS Quarterly*, 36(1), 157–178. <https://www.jstor.org/stable/pdf/41410412.pdf>
- Venkatesh, V., & Zhang, X. (2010). Unified Theory of Acceptance and Use of Technology. *China, Journal of Global Information Technology Management*, 13(1), 5–27. <https://doi.org/10.1080/1097198X.2010.10856507>
- Verdouw, C., Tekinerdogan, B., Beulens, A., & Wolfert, S. (2021). Digital twins in smart farming. *Agricultural Systems*, 189, 103046. <https://doi.org/https://doi.org/10.1016/j.agsy.2020.103046>
- Webber, M., James M, L., & Lawrence A, B. (2006). Brown, L.A. 1981: Innovation diffusion: A new perspective. London: Methuen. *Progress in Human Geography*, 30(4), 487–494. <https://doi.org/10.1191/0309132506PH620XX>
- Widakdo, D. S. W. P. J., Holik, A., & Iska, L. N. (2021). Efek Usia dan Tingkat Pendidikan terhadap Kinerja Tenaga Bantu Penyuluh Pertanian [Effects of Age and Education Level on the Performance of Agricultural Extension Auxiliaries]. *Jurnal Penyuluhan*, 17(01), 52–59. <https://journal.ipb.ac.id/index.php/jupe/article/download/31614/21297/>
- Widodo, W. D., & Setijorini, L. E. (2021). *Budi Daya Tanaman Pangan Utama* (M. I. Rosyid (ed.); 3rd ed.). Universitas Terbuka . <https://pustaka.ut.ac.id/lib/wp-content/uploads/pdfmk/LUHT434403-M1.pdf>
- Widyastuti, A., Pujiastuti, E., & Dwi Wahyuningrum, R. (2021). *Peran Bimtek Virtual Dalam Peningkatan Pengetahuan Penyuluh Pertanian Di Daerah Istimewa Yogyakarta / Widyastuti / Prosiding Seminar Nasional Polbangtan Yogyakarta - Magelang 2021*. <https://jurnal.polbangtanyoma.ac.id/index.php/pros2021/article/view/687>
- Wiliam, A., Arief, M., Bandur, A., & Tjhin, V. U. (2021). A Review on Technology Adoption in Precision Agriculture: The Behavior and Use Acceptance. *ICIT 2021: 2021 The 9th International Conference on Information Technology: IoT and Smart City*, 5(2021), 98–102. <https://doi.org/10.1145/3512576>
- Wilson, R. S. I., Goonetillake, J. S., Ginige, A., & Indika, W. A. (2021). Analysis of information quality for a usable information system in agriculture domain: A study in the Sri Lankan context. *Procedia Computer Science*, 184, 346–355. <https://doi.org/10.1016/J.PROCS.2021.03.044>
- Wintana, D., Denny, P., Farlina, Y., & Hidayatulloh, T. (2021). Implementasi Model Delone and McLean pada analisis Google Classroom sebagai media pembelajaran daring saat pandemi Covid-19. *Jurnal Swabumi*, 9(2).

- Wong, K. K.-K. (2019). *Mastering Partial Least Squares Structural Equation Modeling (PLS-SEM) with SmartPLS in 38 Hours*. iUniverse.
https://www.researchgate.net/publication/332031150_Mastering_Partial_Least_Squares_Structural_Equation_Modeling_PLS-SEM_with_SmartPLS_in_38_Hours
- Wu, L. (2012). An empirical research on poor rural agricultural information technology services to adopt. *Procedia Engineering*, 29, 1578–1583.
<https://doi.org/10.1016/J.PROENG.2012.01.176>
- Yakubu, M. N., Kah, M. M. O., & Dasuki, S. I. (2019). Student's acceptance of learning management systems: A case study of the national open university of Nigeria. *International Conference on Sustainable ICT, Education, and Learning*, 564, 245–255. https://doi.org/10.1007/978-3-030-28764-1_27/COVER
- Yamin, S. (2023). *Olah Data Statistik: Smart PLS 3, Smart PLS 4, AMOS dan STATA* (3rd ed.). Dewanga Energi Internasional.
- Yao, Z., Chen, X., Wang, S., Dai, Q., Li, Y., Zhu, T., & Long, M. (2022). *Recommender Transformers with Behavior Pathways*.
<https://doi.org/https://doi.org/10.48550/arXiv.2206.06804>
- Yuniarto, D., Herdiana, D., & Junaedi, D. I. (2020). Smart farming precision agriculture project success based on information technology capability. *8th International Conference on Cyber and IT Service Management (CITSM)*.
<https://doi.org/10.1109/CITSM50537.2020.9268807>
- Zhang, Z., Cao, T., Shu, J., & Liu, H. (2020). Identifying key factors affecting college students' adoption of the e-learning system in mandatory blended learning environments. *Interactive Learning Environments*.
<https://doi.org/10.1080/10494820.2020.1723113>
- Zheng, S., Wang, S., Wu, S., & Qin, T. (2008). Factors Affecting the Adoption of Logistics Information Systems in Northeast China's Large-Scale Agricultural Corporations. *Proceedings of the 8th International Conference of Chinese Logistics and Transportation Professionals - Logistics: The Emerging Frontiers of Transportation and Development in China*, 3618–3626.
[https://doi.org/10.1061/40996\(330\)531](https://doi.org/10.1061/40996(330)531)
- Zia, A., Alzahrani, M., Alomari, A., & AlGhamdi, F. (2022). Investigating the Drivers of Sustainable Consumption and Their Impact on Online Purchase Intentions for Agricultural Products. *Sustainability*, 14(6563).
<https://doi.org/10.3390/su14116563>
- Zournazis, H. E., & Marlow, A. H. (2015). The use of video conferencing to develop a community of practice for preceptors located in rural and non traditional placement settings: An evaluation study. *Nurse Education in Practice*, 15(2), 119–125.