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DAFTAR PUSTAKA

Abbasi, M., Sarmento, G., Mota, M., Martins, P., Sa, F., & Cardoso, F. (2023). Comparing User Experience: An Analysis of Usability Testing Methods for Mobile Applications. *Iberian Conference on Information Systems and Technologies, CISTI*, *2023-June*, 1–10. https://doi.org/10.23919/CISTI58278.2023.10211987

Ackerman, R., Parush, A., Nassar, F., & Shtub, A. (2016). Metacognition and system usability: Incorporating metacognitive research paradigm into usability testing. *Computers in Human Behavior*, *54*, 101–113. https://doi.org/10.1016/j.chb.2015.07.041

Adzani, M. L., Kom, S., Centered, T., & Design, S. (2017). *UI / UX Analysis & Design For Mobile E-Commerce*. 170–173.

Ahadi, G. D., & Zain, N. N. L. E. (2023). The Simulation Study of Normality Test Using Kolmogorov-Smirnov,Anderson-Darling, and Shapiro-Wilk. *Eigen Mathematics Journal*, *6*(1), 11–19.

Aher, S. B., & Lmrj, L. (2012). Course Recommender System In E-Learning. In *International Journal of Computer Science and Communication* (Vol. 3, Issue 1).

Alfina, O. (2020). PENERAPAN LMS-Google Classroom Dalam Pembelajaran Daring Selama Pandemi COVID-19. *Majalah Ilmiah METHODA*, *10*(1), 38–46. https://doi.org/10.46880/methoda.Vol10No1.pp38-46

AlGhannam, B. A., Albustan, S. A., Al-Hassan, A. A., & Albustan, L. A. (2018). Towards a Standard Arabic System Usability Scale: Psychometric Evaluation using Communication Disorder App. *International Journal of Human-Computer Interaction*, *34*(9), 799–804. https://doi.org/10.1080/10447318.2017.1388099

Alnanih, R., Technology, I., & Arabia, S. (2019). *International Journal of Emerging Trends in Engineering Research Available Online at http://www.warse.org/IJETER/static/pdf/file/ijeter207112019.pdf Cognitive Process-based Design Implications for Mobile User Interfaces*. *7*(11), 523–529.

Altin Gumussoy, C., Pekpazar, A., Esengun, M., Bayraktaroglu, A. E., & Ince, G. (2022). Usability Evaluation of TV Interfaces: Subjective Evaluation Vs. Objective Evaluation. *International Journal of Human-Computer Interaction*, *38*(7), 661–679. https://doi.org/10.1080/10447318.2021.1960093

Anshari, M. R., Kuncoro, A. P., & Subarkah, P. (2024). DESIGNING UI/UX FOR ELEMENTARY SCHOOL E-LEARNING USING DESIGN THINKING METHOD. *JURTEKSI (Jurnal Teknologi Dan Sistem Informasi)*, *10*(3), 575–582. https://doi.org/10.33330/jurteksi.v10i3.3177

Arief, I., Muluk, A., Indrapriyatna, A. S., & Falevy, M. (2021). Pengembangan Antarmuka Portal Universitas untuk Meningkatkan Pengalaman Pengguna. *Jurnal RESTI (Rekayasa Sistem Dan Teknologi Informasi)*, *5*(6), 1052–1061. https://doi.org/10.29207/resti.v5i6.3532

Aripiyanto, S., Agustin, F. E. M., Syakuro, A., Masruroh, S. U., Khairani, D., & Sukmana, H. T. (2022). User Interface and User Experience Design Using Lean UX Method on Zakat Ummat Website. *2022 10th International Conference on Cyber and IT Service Management, CITSM 2022*, *951*, 1–8. https://doi.org/10.1109/CITSM56380.2022.9935899

Bagus, M., Kusuma, A., Sartika, D., & Ramadhan, M. (2024). Penerapan Metode Design Thinking dan User Experience Questionnaire (UEQ) dalam Perancangan User Interface E-Learning. In *Jurnal Nasional Ilmu Komputer* (Vol. 5, Issue 2).

UNIVERSITAS
GADJAH MADA
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

BEHERA, A. P. D. S. K. (2013). E- And M-Learning: A Comparative Study Assist. *International Journal on New Trends in Education and Their Implications*, *4*(3). https://doi.org/10.1108/02640470410561929

Belarbi, N., Talbi, M., Namir, A., & Chafiq, N. (2017). An experimental Case Study: Comparing Perceived Usability of Two Mobile Environments of a SPOC. *International Journal of Computing Academic Research*, *6*(2), 67–70. http://www.meacse.org/ijcar

Brooke, J. (2013). *SUS : A Retrospective*. *8*(2), 29–40.

Burhan, A. G. E., & Gea, D. (2023). Usability Analysis On MOOC Platform. *Journal of Theoretical and Applied Information Technology*, *101*(8). www.jatit.org

Chee, K. N., Yahaya, N., Ibrahim, N. H., & Surif, J. (2017). A preliminary study on students' perspective: Is mobile learning is better than electronic learning? *Man in India*, *97*(12), 141–146.

Chen, I. H., Pramukti, I., Gan, W. Y., Ruckwongpatr, K., Pham, L. A., Huang, P. C., Mamun, M. A., Ullah, I., Jahrami, H. A., Lin, C. Y., & Pakpour, A. H. (2024). Smartphone Application-Based Addiction Scale: Psychometric Evidence Across Nine Asian Regions Using Advanced Analytic Methods. *Brain and Behavior*, *14*(11), e70133. https://doi.org/10.1002/brb3.70133

Chicco, D., Sichenze, A., & Jurman, G. (2025). A simple guide to the use of Student's t-test, Mann-Whitney U test, Chi-squared test, and Kruskal-Wallis test in biostatistics. In *BioData Mining* (Vol. 18, Issue 1). BioMed Central. https://doi.org/10.1186/s13040-025-00465-6

Chusna, N. L. U. (2019). Pembelajaran E-Learning. *Prosiding Seminar Nasional Pendidikan KALUNI*, *2*. https://doi.org/10.30998/prokaluni.v2i0.36

Citra Sabrina, V., Cahyo Wibowo, N., & Fitri Ana Wati, S. (2024). KLIK: Kajian Ilmiah Informatika dan Komputer Perancangan Ulang UI/UX Website Learning Management System Startup XYZ Dengan Metode User-Centered Design. *Media Online)*, *4*(6), 2754–2762. https://doi.org/10.30865/klik.v4i6.1886

Clark, N., Dabkowski, M., Driscoll, P. J., Kennedy, D., Shi, H., Clark, N., Dabkowski, M., Driscoll, P. J., Kennedy, D., Clark, N., Dabkowski, M., & Driscoll, P. J. (2021). Empirical Decision Rules for Improving the Uncertainty Reporting of Small Sample System Usability Scale Scores Empirical Decision Rules for Improving the Uncertainty Reporting of Small Sample System Usability Scale Scores. *International Journal of Human–Computer Interaction*, *00*(00), 1–16. https://doi.org/10.1080/10447318.2020.1870831

Debataraja, N. N., & Kusnandar, D. (2022). Penerapan Analisis Fisher ' S Exact Test Pada Kasus Multidrug Resistant Tuberculosis (Mdr-Tb) Di Kalimantan Barat. *Jurnal Media Kesehatan*, *11*(3), 477–482.

Elling, S., Lentz, L., & Jong, M. De. (2012). *Combining Concurrent Think-Aloud Protocols and Eye-Tracking Observations : An Analysis of Verbalizations*. *55*(3), 206–220. https://doi.org/10.1109/TPC.2012.2206190

Ernawati, S., & Rahayu, S. (2023). Analisa Usability Pada Aplikasi Identitas Kependudukan Digital Menggunakan Metode Usability Testing. *BIOS : Jurnal Teknologi Informasi Dan Rekayasa Komputer*, *5*(1), 12–19. https://doi.org/10.37148/bios.v5i1.87

Fadli, B., Ramadlan, N., Wulandari, S., Hajar, R. R., Sejati, P., & Suhendar, A. (2024). KLIK: Kajian Ilmiah Informatika dan Komputer Penerapan Metode UCD (User Centered Design) Pada Sistem Perpustakaan Sekolah Berbasis Android. *Media Online*, *4*(5), 2430–2441. https://doi.org/10.30865/klik.v4i5.1803

Faizin, H., & Mataram, U. (2023). PERKEMBANGAN E-LEARNING DI INDONESIA.

UNIVERSITAS
GADJAH MADA
Analisis Usabilitas Dari Perancangan UI/UX eLOK (E-Learning : Open For Knowledge Sharing) Versi Mobile Dengan Eye Tracking Dan Think-Aloud
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

In *Husnul Faizin & Muhammad* (Vol. 99, Issue 1). https://www.jurnal.zarilgapari.org/index.php/aslamiah

Faudzi, M. A., Cob, Z. C., Ghazali, M., Omar, R., & Sharudin, S. A. (2024). User Interface Design in Mobile Learning Applications: Developing and Evaluating a Questionnaire for Measuring Learners' Extraneous Cognitive Load. *Heliyon*, *10*(18), e37494. https://doi.org/10.1016/j.heliyon.2024.e37494

Fitron, R. (2020). *2020 - Analisis User Experience pada e-Learning Model MOOC menggunakan User-centered Metrics (Studi Kasus eLOK)*.

Foundation, I. D. (2016). *User Centered Design (UCD)*. Interaction Design Foundation - IxDF. https://www.interaction-design.org/literature/topics/user-centered-design

Gazzawe, F. (2017). *Comparison of websites and mobile applica-tions for e-learning*.

Ghayas, S., Sulaiman, S., Khan, M., & Jaafar, J. (2013). Qualitative Study to Identify Icons Characteristics on Mobile Phones Applications Interfaces. *2013 IEEE Symposium on Wireless Technology & Applications (ISWTA)*, 310–315. https://doi.org/10.1109/ISWTA.2013.6688794

Ghozali, M. I., Murti, A. C., & Muzid, S. (2023). KLIK: Kajian Ilmiah Informatika dan Komputer Analisis Penggunaan Metode User-Centered Design dalam Peningkatan Akseptabilitas SIMPELMAS. *Media Online)*, *4*(2), 1200–1206. https://doi.org/10.30865/klik.v4i2.1317

Gunesekera, A. I., Bao, Y., & Kibelloh, M. (2019). The role of usability on e-learning user interactions and satisfaction : a literature review. *Jpurnal of System and Information Technology*, *21*, 368–394. https://doi.org/10.1108/JSIT-02-2019-0024

Guntupalli, R. (2008). User interface design: methods and qualities of a good user interface design. *Software Engineering, 2008*, 37. www.hv.se

Hanifa, M. R., Santoso, H. B., & Kasiyah. (2019). *Evaluation and Recommendations for the Instructional Design and User Interface Design of Coursera MOOC Platform*. IEEE.

Harlim, K., & Setiyawati, N. (2022). Perancangan User Experience Aplikasi Mobile Majuli Menggunakan Metode Design Thinking. In *Journal of Information Technology Ampera* (Vol. 3, Issue 2). https://journal-computing.org/index.php/journal-ita/index

Has, M. I., & Purnomo, E. (2024). User Interface dan User Experience Learning Management System Universitas Negeri Padang Berbasis Aplikasi Mobile. *Misterius : Publikasi Ilmu Seni Dan Desain Komunikasi Visual.*, *1*(3), 186–194. https://doi.org/10.62383/misterius.v1i3.300

Herlina. (2024). Integrating Accessibility Features and Usability Testing for Inclusive Web Design. *2024 International Conference on Intelligent Cybernetics Technology & Applications (ICICyTA)*, 1284–1289. https://doi.org/10.1109/ICICYTA64807.2024.10913054

Herlina, H., & Nugraha, K. A. (2023). Evaluating The Usability of Massive Open Online Course User Interface Based on Eye-Tracker Data. *2023 3rd International Conference on Intelligent Cybernetics Technology and Applications, ICICyTA 2023*, 272–277. https://doi.org/10.1109/ICICyTA60173.2023.10429001

Hidayat, A. S., Santosa, P. I., & Hidayah, I. (2022). Usability Testing of MOOC Prototype Using SUS (System Usability Scale) Method. *Proceedings - IEIT 2022: 2022 International Conference on Electrical and Information Technology*, *1*, 290–294. https://doi.org/10.1109/IEIT56384.2022.9967901

Ijaz, T. (2014). *Impact of Usability on Non-Technical Users : Usability Testing through Websites*. 37–42.

ISO 9241-11. (1994). Ergonomic requirements for office work with visual display

UNIVERSITAS
GADJAH MADA
Analisis Usabilitas Dari Perancangan UI/UX eLOK (E-Learning : Open For Knowledge Sharing) Versi Mobile Dengan Eye Tracking Dan Think-Aloud
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

terminals. Part 11: Guidance on usability. *ISO No 924111*, *2008*(February 9), 22.

Joseph, A. W., & Murugesh, R. (2020). *Potential Eye Tracking Metrics and Indicators to Measure Cognitive Load in Human-Computer Interaction Research*. *64*(1), 268–275.

Kim, T. (2017). *Perceived Difficulties in Using Blenders by User Groups and Product Features*. 37–55.

Kiran, M., Kothamasu, K., & Siddhartha, P. B. (2010). *Formal Education Technologies for scaling up ODL programmes Odl Programmes Through M-learning Technology*.

Kortum, P., & Johnson, M. (2013). *The Relationship Between Levels of User Experience with a Product and Perceived System Usability*. 197–201.

Kusumastuti, D. L., & Tjhin, V. U. (2021). Usage of Massive Open Online Course to Motivate Student in Learning. *Proceedings of the 6th International Conference on Inventive Computation Technologies, ICICT 2021*, 1075–1078. https://doi.org/10.1109/ICICT50816.2021.9358731

Lewis, J. R. (2018). The System Usability Scale: Past, Present, and Future. *International Journal of Human-Computer Interaction*, *34*(7), 577–590. https://doi.org/10.1080/10447318.2018.1455307

Li, X., Luh, D., & Chen, Z. (2024). *and Meta-Analysis of Eye-Tracking Studies for Consumers ' Visual Attention in Online Shopping*. https://doi.org/10.5755/j01.itc.53.1.34855

Lima, A. L. D. S., & Benitti, F. B. V. (2021). UsabilityZero: Can a Bad User Experience Teach Well? *Informatics in Education*, *20*(1), 69–84. https://doi.org/10.15388/infedu.2021.04

Lintvedt, O., Nordheim, E. S., Solvoll, T. G., Pedersen, R., Id, O., & Lintvedt, O. (2025). *Evaluating Usability and User Satisfaction in Hospital-Based EHR Systems : A Comparative Study of Two Usability Tools in the Context of the Valkyrie Project*. *0*, 4–8. https://doi.org/10.3233/SHTI250235

Maqbul, M. (2020). *The Role Of The Massive Open Online Course (MOOC) In Learning Al-Quran In Indonesia*. https://www.researchgate.net/publication/354671115_Peran_Massive_Open_Online_Course_Terhadap_Pembelajaran_Al-Quran_di_Indonesia

Mardina, R. (2018). *Inovasi Perpustakaan Melalui MOOCs: Peluang Pustakawan Embeded di Era Industri 4.0*. https://www.researchgate.net/profile/Riana-Mardina-2/publication/333797568_Inovasi_Perpustakaan_Melalui_MOOCs_Peluang_Pustakawan_Embedded_di_Era_Industri_40/links/5d045ffe92851c90043c8e86/Inovasi-Perpustakaan-Melalui-MOOCs-Peluang-Pustakawan-Embedded-di-E

Maslov, I., & Nikou, S. (2020). *Usability and UX of Learning Management Systems: An Eye Tracking Approach*. IEEE.

Nadzeri, M. B., Musa, M., Meng, C. C., & Ismail, I. M. (2023). Interactive Mobile Technologies. *International Journal of Interactive Mobile Technologies*, *17*(15), 135–154.

Nielsen, J. (1993). *Usability Engineering*. http://www.hbuk.co.uk/

Novák, J. Š., Masner, J., Benda, P., Šimek, P., & Merunka, V. (2024). Eye Tracking, Usability, and User Experience: A Systematic Review. *International Journal of Human-Computer Interaction*, *40*(17), 4484–4500. https://doi.org/10.1080/10447318.2023.2221600

Oktavia, S. (2023). *Evaluasi Usabilitas Dan Perancangan Desain User Interface Course Pada Elok Dengan Metode Design Thinking Disusun Oleh: Sonia Oktavia Napitupulu 19/443807/Tk/49003 Program Studi Teknik Industri Departemen Teknik Mesin Dan Industri Fakultas Teknik Universitas Gadjah Mada Yogyakarta 2023*.

UNIVERSITAS
GADJAH MADA
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Oyekunle, R., Bello, O., Jubril, Q., Sikiru, I., & Balogun, A. (2020). Usability Evaluation using Eye-Tracking on E-Commerce and Education Domains. *Journal of Information Technology and Computing*, *1*(1), 1–13. https://doi.org/10.48185/jitc.v1i1.43

Paramartha, Y., Seputra, K. A., & Azima, F. (2022). *Usability Evaluation of an Interactive Educational Mobile Application*. IEEE Computer Society, Conference Publishing Services.

Pirus, A. E., Yulin, J., Danuaji, M. F., & Sukmaningsih, D. W. (2023). Eye Tracking in Usability Evaluation of User Experience on Enrichment Apps Web for Internship Program at XYZ University. *10th International Conference on ICT for Smart Society, ICISS 2023 - Proceeding*. https://doi.org/10.1109/ICISS59129.2023.10291901

Plebankiewicz, E., Juszczyk, M., & Malara, J. (2015). *Estimation Of Task Completion Times With The Use Of The Pert Method On The Example*. *61*(3). https://doi.org/10.1515/ace-2015-0024

Pretorius, M., & Biljon, J. Van. (2025). *Learning management systems : ICT skills , usability and learnability*. *November*, 17–21. https://doi.org/10.1108/17415651011031635

Putri, N. L., Wedayanti, A., Kadek, N., Wirdiani, A., Ketut, I., & Purnawan, A. (2019). *Evaluasi Aspek Usability pada Aplikasi Simalu Menggunakan Metode Usability Testing*. *7*(2).

Rafif, M., Effendy, V., & Gandhi, A. (2022). User Interface Design for Blood Donor Information Media Using User-Centered Design Method (Case Study UTD PMI Pontianak). *2022 1st International Conference on Software Engineering and Information Technology, ICoSEIT 2022*, 156–161. https://doi.org/10.1109/ICoSEIT55604.2022.10029978

Rahmadtul Ulfa, B., & Ambarwati, A. (2022). Pengujian Usability Aplikasi Mobile E-Surat Menggunakan User Experience Questionnaire (UEQ). *Jurnal Teknik Informatika Dan Sistem Informasi*, *9*(4). http://jurnal.

Ramadiani, Azainil, Haryaka, U., Agus, F., & Kridalaksana, A. H. (2017). User Satisfaction Model for e-Learning Using Smartphone. *Procedia Computer Science*, *116*, 373–380. https://doi.org/10.1016/j.procs.2017.10.070

Ramakrisnan, P., Jaafar, A., Razak, F. H. A., & Ramba, D. A. (2012). Evaluation of user Interface Design for Leaning Management System (LMS): Investigating Student's Eye Tracking Pattern and Experiences. *Procedia - Social and Behavioral Sciences*, *67*, 527–537. https://doi.org/10.1016/j.sbspro.2012.11.357

Regal, A., & Widiasari, I. R. (2020). Perancangan dan Analisis Pengaruh User Interface E-Learning Terhadap Minat Belajar Siswa SMA/SMK Menggunakan Heuristics of Responsive Web Design. In *Journal of Information Technology Ampera* (Vol. 1, Issue 2). https://journal-computing.org/index.php/journal-ita/index

Rizal, S., & Walidain, B. (2019). Pembuatan Media Pembelajaran E-Learning Berbasis Moodle Pada Matakuliah Pengantar Aplikasi Komputer Universitas Serambi Mekkah. *JURNAL ILMIAH DIDAKTIKA: Media Ilmiah Pendidikan Dan Pengajaran*, *19*(2), 178. https://doi.org/10.22373/jid.v19i2.5032

Rizqi, N. P., Kaniawulan, I., & Sulistyo, I. (2024). *PERANCANGAN UI/UX APLIKASI E-LEARNING BERBASIS WEBSITE DI SMAN 1 PURWAKARTA MENGGUNAKAN GOAL DIRECTED DESIGN*. https://doi.org/10.55123

Rubin, J., & Chisnell, D. (2008). *Handbook of Usability Testing : How to Plan, Design, and Conduct Effective Tests {2Nd Ed.}*.

Schmidt, M., Earnshaw, Y., Tawfik, A. A., & Jahnke, I. (2020). Methods of User

UNIVERSITAS
GADJAH MADA
Analisis Usabilitas Dari Perancangan UI/UX eLOK (E-Learning : Open For Knowledge Sharing) Versi Mobile Dengan Eye Tracking Dan Think-Aloud
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Centered Design and Evaluation for Learning Designers. *Learner and User Experience Research: An Introduction for the Field of Learning Design & Technology*, 161–178. https://edtechbooks.org/-ENoi

Setiyanto, S., & Yasin, I. F. (2023). Analisis User Interface pada Website E-Learning dengan Metode Evaluasi Heuristik. *Indonesian Journal of Multidisciplinary on Social and Technology*, *1*(3), 327–332. https://doi.org/10.31004/ijmst.v1i3.293

Sharafi, Z., Shaffer, T., Sharif, B., & Gueheneuc, Y. G. (2016). Eye-tracking metrics in software engineering. *Proceedings - Asia-Pacific Software Engineering Conference, APSEC*, *2016-May*, 96–103. https://doi.org/10.1109/APSEC.2015.53

Sidhawara, A. P., Setyohadi, D. B., Dewi, L. T., & Kusrohmaniah, S. (2018). *E-learning's usability measurement toward students with myopia visual impairment*. https://doi.org/10.1051/e3sconf/201873

Sopiandi, I. (2017). Kepuasan Pengguna Media Aplikasi Interaktif Berbasis E-Learning Di Universitas Majalengka. *SMARTICS Journal*, *3*. https://doi.org/10.21067/smartics.v3i2.2169

Sugosha, K. G., Andreswari, R., & Hardiyanti, M. (2021). Design and Implementation of User Interface and User Experience in Online Sales Applications at Sugosha Pharmacy with User Centered Design Method. *2021 International Conference on Advanced Computer Science and Information Systems, ICACSIS 2021*, 1–5. https://doi.org/10.1109/ICACSIS53237.2021.9631344

Sunardi, Julian, I., Murad, D. F., & Riva'I, R. Y. (2021). Combining UEQ and Eye-Tracking Method as Usability Evaluation for Mobile Apps. *3rd International Conference on Cybernetics and Intelligent Systems, ICORIS 2021*. https://doi.org/10.1109/ICORIS52787.2021.9649529

Tablatin, C. L. S. (2023). *Visual Attention Patterns in Finding Source Code Defects*. *20*, 375–389. https://doi.org/10.37394/23209.2023.20.40

To, R. N., Wu, Y., & Zhang, Z. (2025). Flat or gradient ? The impact of packaging color palette presentation on consumer purchase intent for utilitarian versus hedonic products. *Journal of Marketing Theory and Practice*, *00*(00), 1–21. https://doi.org/10.1080/10696679.2025.2552272

Tullis, T., & Albert, B. (2008). *Measuring the User Experience : Collecting, Analysis, and Presenting Usability Metrics* (Second Edi). Morgan Kaufmann Publishers.

Wang, J., Antonenko, P., Celepkolu, M., Jimenez, Y., Fieldman, E., & Fieldman, A. (2019). Exploring Relationships Between Eye Tracking and Traditional Usability Testing Data. *International Journal of Human-Computer Interaction*, *35*(6), 483–494. https://doi.org/10.1080/10447318.2018.1464776

Wilf, M., Korakin, A., Bahat, Y., Koren, O., Galor, N., Dagan, O., Wright, W. G., Friedman, J., & Plotnik, M. (2024). Neuropsychologia Using virtual reality-based neurocognitive testing and eye tracking to study naturalistic cognitive-motor performance. *Neuropsychologia*, *194*(December 2023), 108744. https://doi.org/10.1016/j.neuropsychologia.2023.108744

Wolcott, M. D., Lobczowski, N. G., Eshelman, U. N. C., Hill, C., Hall, B., Hill, C., & Carolina, N. (2021). Using cognitive interviews and think-aloud protocols to understand thought processes. *Currents in Pharmacy Teaching and Learning*, *13*(2), 181–188. https://doi.org/10.1016/j.cptl.2020.09.005

Wu, L., Zhu, Z., Cao, H., & Li, B. (2016). Influence of information overload on operator ' s user experience of human – machine interface in LED manufacturing systems. *Cognition, Technology & Work*, *18*(1), 161–173. https://doi.org/10.1007/s10111-015-0352-0

Wu, Y., Zhang, Z., Zhang, Y., Zheng, B., & Aghazadeh, F. (2024). Pupil Response in

UNIVERSITAS
GADJAH MADA
Analisis Usabilitas Dari Perancangan UI/UX eLOK (E-Learning : Open For Knowledge Sharing) Versi Mobile Dengan Eye Tracking Dan Think-Aloud
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Visual Tracking Tasks : The Impacts of Task Load , Familiarity , and Gaze Position. *Sensors*, *24*, 1–11.

Yang, L., Qi, B., & Guo, Q. (2024). *applied sciences The Effect of Icon Color Combinations in Information Interfaces on Task Performance under Varying Levels of Cognitive Load*.

Yanti, C. A., & Akhri, I. J. (2022). Perbedaan Uji Korelasi Pearson, Spearman Dan Kendall Tau Dalam Menganalisis Kejadian Diare. *Jurnal Endurance*, *6*(1), 51–58. https://doi.org/10.22216/jen.v6i1.137

Zhao, X., & Lal, R. (2020). An Experiment: The Optimal Number of Participants for the Usability Testing of Mobile Apps. *ACIS 2020 Proceedings - 31st Australasian Conference on Information Systems*.

Zhong, P., & Zheng, G. (2011). Research on the application of M-Learning based on intelligent mobile devices. *ITME 2011 - Proceedings: 2011 IEEE International Symposium on IT in Medicine and Education*, *1*, 239–243. https://doi.org/10.1109/ITiME.2011.6130824

Zhu, S., Su, X., & Dong, Y. (2021). *Effects of the Font Size and Line Spacing of Simplified Chinese Characters on Smartphone Readability*. *33*(2).