

DAFTAR PUSTAKA

- Aguedo, C., Espinoza, J., & Pacheco, A. (2024). Improving Inventory Control Through a Web-Based System in a Retail Company. *F1000Research*, 13, 252. <https://doi.org/10.12688/f1000research.145178.1>
- Alabduljabbar, R. (2024). User-centric AI: evaluating the usability of generative AI applications through user reviews on app stores. *PeerJ Computer Science*, 10. <https://doi.org/10.7717/peerj-cs.2421>
- Alade, S. M. (2023). Design and Implementation of a Web-based Document Management System. *International Journal of Information Technology and Computer Science*, 15(2), 35–53. <https://doi.org/10.5815/ijitcs.2023.02.04>
- Clasey, J. L., Easley, E. A., Murphy, M. O., Kiessling, S. G., Stromberg, A., Schadler, A., Huang, H., & Bauer, J. A. (2023). Body mass index percentiles versus body composition assessments: Challenges for disease risk classifications in children. *Frontiers in Pediatrics*, 11. <https://doi.org/10.3389/fped.2023.1112920>
- de Castro, B. A., Levens, S. M., Sullivan, M., & Shaw, G. (2025). Recommender systems use in weight management mHealth interventions: A scoping review. In *Obesity Reviews* (Vol. 26, Issue 3). John Wiley and Sons Inc. <https://doi.org/10.1111/obr.13863>
- Debora Karyoko. (2024). *Jakarta Jadi Provinsi dengan Prevalensi Overweight dan Obesitas Tertinggi di Indonesia pada 2023*. <https://goodstats.id/article/jakarta-jadi-provinsi-dengan-prevalensi-overweight-dan-obesitas-tertinggi-di-indonesia-pada-2023-iG8DO>
- Dhungana, A., Paneru, B., Dahal, S., Song, Z., & Chai, L. (2026). Development and Validation of Internet of Things-Enabled Weighing System for Cage-Free Poultry Houses. *Sensors*, 26(4). <https://doi.org/10.3390/s26041279>
- Dosbayev, Z., Tuleshov, A., Osmanov, A., Sadykova, B., Smailov, N., & Sabibolda, A. (2025). DEVELOPMENT OF A LITERACY ENHANCEMENT SYSTEM BASED ON IOT AND WEB TECHNOLOGIES: INTEGRATION OF ESP8266 AND LARAVEL. *Eastern-European Journal of Enterprise Technologies*, 4(9), 51–60. <https://doi.org/10.15587/1729-4061.2025.337999>
- Elhag, A., Alabri, M., & Yousef, A. M. F. (2025). The effect of generative AI tools (ChatGPT, Gemini, etc.) on students' achievement and their motivation towards learning. *Journal of Technology and Science Education*, 15(3), 746. <https://doi.org/10.3926/jotse.3410>
- Forberger, S., Reisch, L. A., van Gorp, P., Stahl, C., Christianson, L., Halimi, J., De Santis, K. K., Malisoux, L., de-Magistris, T., & Bohn, T. (2024). 'Let me recommend...': use of digital nudges or recommender systems for overweight and obesity prevention—a scoping review protocol. *BMJ Open*, 14(7). <https://doi.org/10.1136/bmjopen-2023-080644>
- Gau, M., Greif-Winzrieth, A., Maedche, A., Weinhardt, C., & vom Brocke, J. (2025). Engaging citizen scientists: designing an open research system for collaborative problem exploration. *Electronic Markets*, 35(1). <https://doi.org/10.1007/s12525-025-00757-z>
- Guo, T., Shen, S., Yang, S., & Yang, F. (2024). The relationship between BMI and physical fitness among 7451 college freshmen: a cross-sectional study in Beijing, China. *Frontiers in Physiology*, 15.

- <https://doi.org/10.3389/fphys.2024.1435157>
- Haq, M. A., Rosadi, A., & Wicaksono, F. W. (2024). Sistem Identifikasi Wajah Personal dan Hemat Daya dengan ESP32 dan OV2640 Berbasis Model ResNet-29. *Cyclotron*, 7(02). <https://journal.um-surabaya.ac.id/cyclotron/article/view/23286%0Ahttps://journal.um-surabaya.ac.id/cyclotron/article/download/23286/8110>
- Haryanti, T., Rakhmawati, N. A., Subriadi, A. P., & Tjahyanto, A. (2022). The Design Science Research Methodology (DSRM) for Self-Assessing Digital Transformation Maturity Index in Indonesia. *2022 IEEE 7th International Conference on Information Technology and Digital Applications (ICITDA)*, 1–7. <https://doi.org/10.1109/ICITDA55840.2022.9971171>
- Hazbi, T. M., & Ma'arif, A. (2023). Design an Automatic Water Tank Filling Tool Using NodeMCU Based on the Internet of Things. *Buletin Ilmiah Sarjana Teknik Elektro*, 5(1), 22–30. <https://doi.org/10.12928/biste.v5i1.5761>
- Heymsfield, S. B., Sorkin, J. D., Thomas, D. M., Yang, S., Heo, M., McCarthy, C., Brown, J., & Pietrobelli, A. (2025). Weight/height²: Mathematical overview of the world's most widely used adiposity index. In *Obesity Reviews* (Vol. 26, Issue 1). John Wiley and Sons Inc. <https://doi.org/10.1111/obr.13842>
- Hu, C., Lv, Z., Zhu, J., Lai, C., Guo, D., Chen, M., Cheng, X., Rao, M., Zhou, X., & Su, L. (2025). The Impact of Digital Technology–Based Exercise Combined With Dietary Intervention on Body Composition in College Students With Obesity: Prospective Study. *Journal of Medical Internet Research*, 27. <https://doi.org/10.2196/65868>
- Huang, C. F., Chou, F. H., Chang, C. H., & Guo, S. E. (2023). The Associations of Body Mass Index, Body Image, Perceived Stress, and Mental Health among Female Nursing Students: A Cross-Sectional Study in Taiwan. *Healthcare (Switzerland)*, 11(17). <https://doi.org/10.3390/healthcare11172426>
- Huang, S., Conkle, J., Homer, C. S. E., Kounnavong, S., Phongluxa, K., & Vogel, J. P. (2023). Comparing the accuracy of an ultrasound height measurement device with a wooden measurement board among children aged 2–5 years in rural Lao People's Democratic Republic: A methods-comparison study. *PLoS ONE*, 18(11 November). <https://doi.org/10.1371/journal.pone.0289514>
- Kementerian Kesehatan RI. (2014). *Peraturan Menteri Kesehatan Republik Indonesia Nomor 41 Tahun 2014 tentang Pedoman Gizi Seimbang*.
- Leevy, J. L., Johnson, J. M., Hancock, J., & Khoshgoftaar, T. M. (2023). Threshold optimization and random undersampling for imbalanced credit card data. *Journal of Big Data*, 10(1). <https://doi.org/10.1186/s40537-023-00738-z>
- Mabotha, E., Mabunda, N. E., Ali, A., & Khan, B. (2025). Exploring dynamic RESTful API implementation in IoT environments using Docker. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-16460-0>
- Miranda, R., Alves, C., Sousa, R., Chaves, A., Montenegro, L., Peixoto, H., Durães, D., Machado, R., Abelha, A., Novais, P., & Machado, J. (2024). Revolutionising the Quality of Life: The Role of Real-Time Sensing in Smart Cities. *Electronics (Switzerland)*, 13(3). <https://doi.org/10.3390/electronics13030550>
- Mohammed, B. G., & Hasan, D. S. (2023). Smart Healthcare Monitoring System Using IoT. *International Journal of Interactive Mobile Technologies*, 17(1), 141–152. <https://doi.org/10.3991/ijim.v17i01.34675>

- Nabila, S. F., & Nursusanto, U. (2024). Design and Construction of an IoT-based Body Mass Index (BMI) Measuring Tool Using an Android Application. *Journal of Robotics, Automation, and Electronics Engineering*, 2(2), 51–63. <https://doi.org/10.21831/jraee.v2i2.610>
- Nolandy, H., Utomo, M. T. S., Kiono, B. F. T., Sukra, K. F. A., Soewono, R. T., Rahman, A. T., & Ammarullah, M. I. (2024). Gravimetric approach of fuel consumption in 30% biodiesel blends fuel: cost-effective solution of real-world fuel consumption measurement. *Cogent Engineering*, 11(1). <https://doi.org/10.1080/23311916.2024.2345512>
- Nugraha, M. A., Haryanti, T., & Tantri, A. H. (n.d.). *SNESTIK Seminar Nasional Teknik Elektro, Sistem Informasi, dan Teknik Informatika Perancangan Alat Ukur Berat Badan dan Tinggi Badan dengan Menerapkan Metode Fuzzy Logic Berbasis Arduino*. <https://doi.org/10.31284/p.snestik.2024.5893>
- Nurhaliza, R. A., Octava, M. Q. H., Hilmy, F. M., Farooq, U., & Alfian, G. (2024). Application of the outlier detection method for web-based blood glucose level monitoring system. *Bulletin of Electrical Engineering and Informatics*, 13(4), 2809–2816. <https://doi.org/10.11591/eei.v13i4.7717>
- Pescari, D., Mihuta, M. S., Bena, A., & Stoian, D. (2024). Comparative Analysis of Dietary Habits and Obesity Prediction: Body Mass Index versus Body Fat Percentage Classification Using Bioelectrical Impedance Analysis. *Nutrients*, 16(19). <https://doi.org/10.3390/nu16193291>
- Priede, L., Beitane, I., & Beitane, L. (2025). A Study of Relationships Between Mental Well-Being, Sleep Quality, Eating Behavior, and BMI: A Cross-Sectional Study Among University Students. *International Journal of Environmental Research and Public Health*, 22(10). <https://doi.org/10.3390/ijerph22101465>
- Rihmi, M. K., Bintoro, G., Rahman, M. A., Puspito, G., & Muntaha, A. (2024). Accuracy Analysis of Distance Measurement Using Sonar Ultrasonic Sensor HC-SR04 on Several Types of Materials. *Journal of Environmental Engineering and Sustainable Technology*, 11(1), 10–13. <https://doi.org/10.21776/ub.jeest.2024.011.01.2>
- Romme, A. G. L., & Holmström, J. (2023). From theories to tools: Calling for research on technological innovation informed by design science. In *Technovation* (Vol. 121). Elsevier Ltd. <https://doi.org/10.1016/j.technovation.2023.102692>
- Shafi, I., Din, S., Farooq, S., de la Torre Díez, I., Breñosa, J., Martínez Espinosa, J. C., & Ashraf, I. (2024). Design and development of patient health tracking, monitoring and big data storage using Internet of Things and real time cloud computing. *PLoS ONE*, 19(3 March). <https://doi.org/10.1371/journal.pone.0298582>
- Song, L., Li, J., Yu, S., Cai, Y., He, H., Lun, J., Zheng, L., & Ye, J. (2023). Body Mass Index is Associated with blood pressure and vital capacity in medical students. *Lipids in Health and Disease*, 22(1). <https://doi.org/10.1186/s12944-023-01920-1>
- Upadhyay, D., Garg, P., Aldossary, S. M., Shafi, J., & Kumar, S. (2023). A Linear Quadratic Regression-Based Synchronised Health Monitoring System (SHMS) for IoT Applications. *Electronics (Switzerland)*, 12(2). <https://doi.org/10.3390/electronics12020309>

- Uta, M., Felfernig, A., Le, V. M., Tran, T. N. T., Garber, D., Lubos, S., & Burgstaller, T. (2024). Knowledge-based recommender systems: overview and research directions. In *Frontiers in Big Data* (Vol. 7). Frontiers Media SA. <https://doi.org/10.3389/fdata.2024.1304439>
- Wu, J. Y., Wang, Y., Ching, C. T. S., Wang, H. M. D., & Liao, L. De. (2023). IoT-based wearable health monitoring device and its validation for potential critical and emergency applications. *Frontiers in Public Health*, 11. <https://doi.org/10.3389/fpubh.2023.1188304>
- Wu, Y., Li, D., & Vermund, S. H. (2024). Advantages and Limitations of the Body Mass Index (BMI) to Assess Adult Obesity. In *International Journal of Environmental Research and Public Health* (Vol. 21, Issue 6). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/ijerph21060757>
- Yuniarti, T., Musta'In, Adriani, R. B., Widiyanto, A., Atmojo, J. T., & Putri, S. I. (2024). The Correlation between Physical Activity, Sedentary Behavior, and Body Mass Index among College Students in Surakarta, Indonesia: A Cross-sectional Study. *Asian Journal of Social Health and Behavior*, 7(3), 134–139. https://doi.org/10.4103/shb.shb_18_24
- Zapata, J. K., Azcona-Sanjulian, M. C., Catalán, V., Ramírez, B., Silva, C., Rodríguez, A., Escalada, J., Frühbeck, G., & Gómez-Ambrosi, J. (2023). BMI-based obesity classification misses children and adolescents with raised cardiometabolic risk due to increased adiposity. *Cardiovascular Diabetology*, 22(1). <https://doi.org/10.1186/s12933-023-01972-8>
- Zhang, X., Shang, P., & Li, B. (2023). A novel Dynamic Body Weight Support overground co-walker enabling variable unloading ratio and Motion Tracking. *Frontiers in Neuroscience*, 17. <https://doi.org/10.3389/fnins.2023.1188776>
- Zheng, Y., Hui, X., Cai, D., Shoukat, M. R., Wang, Y., Wang, Z., Ma, F., & Yan, H. (2024). Calibrating ultrasonic sensor measurements of crop canopy heights: a case study of maize and wheat. *Frontiers in Plant Science*, 15. <https://doi.org/10.3389/fpls.2024.1354359>