

DAFTAR PUSTAKA

- [1] Y. Horban, N. Gaisynuik, T. Dolbenko, , N. Kobyzhcha, and Y. Kulish, “The media space of a modern library in the context of its organizing by virtual and augmented reality technologies,” *International Journal of Information and Education Technology*, 2023.
- [2] C. Meier, J. L. S. Pérez, S. D. Parrilla, A. B. d. León, and D. M. Díaz, “User experience in virtual tours of heritage with 360° photos: study of the chapel of dolores in icod de los vinos,” 2024.
- [3] C. Hedenqvist, M. Romero, and R. Vinuesa, “Improving the learning of mechanics through augmented reality,” *Technology Knowledge and Learning*, 2021.
- [4] N. Mayesti, C. H. Huang, A. F. Azmir, and D. M. Adzani, “Librarians’ views of the readiness of university libraries in indonesia to adopt virtual and augmented reality,” *Digital Library Perspectives*, vol. 40, pp. 212–230, 2024.
- [5] D. N. M. Nizam, L. W. Shin, Z. H. A. Sani, P. Thamrongrat, and N. M. Tuah, “An indoor navigation support for the student halls of residence using augmented reality: a design perspective,” *Pertanika Journal of Science and Technology*, vol. 29, 2021.
- [6] M. I. Hidayat and A. Qoiriah, “Implementasi pathfinding dengan algoritma a* pada aplikasi indoor navigation menggunakan unity navmesh,” *Journal of Informatics and Computer Science (JINACS)*, vol. 3, pp. 334–342, 2022.
- [7] K. Chiang, J. Liao, G. Tsai, and H. Chang, “The performance analysis of the map-aided fuzzy decision tree based on the pedestrian dead reckoning algorithm in an indoor environment,” *Sensors*, vol. 16, p. 34, 2015.
- [8] X. H. Ng and W. N. Lim, “Design of a mobile augmented reality-based indoor navigation system,” in *2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, 2020, pp. 1–6.
- [9] V. Patel, “Augmented reality based indoor navigation using point cloud localization,” Ph.D. dissertation, 2021.
- [10] P. Jayananda, D. Seneviratne, P. Abeygunawardhana, L. Dodampege, and A. Lakshani, “Augmented reality based smart supermarket system with indoor navigation using beacon technology (easy shopping android mobile app),” in *2018 IEEE International Conference on Information and Automation for Sustainability (ICIAfS)*, 2018, pp. 1–6.
- [11] P. D. Yuningsih and L. A. Utami, “Sistem informasi online booking berbasis web pada pheo studi salon,” *vol*, vol. 18, pp. 193–200, 2024.
- [12] M. A. K. Rizki and F. Op, “Rancang bangun aplikasi e-cuti pegawai berbasis website (studi kasus: Pengadilan tata usaha negara),” *Jurnal Teknologi Dan Sistem Informasi (JTSI)*, vol. 2, no. 3, pp. 1–13, 2021.

- [15] E. Nurelasari, "Perancangan sistem informasi akademik pada sekolah menengah pertama berbasis web," *Komputika: Jurnal Sistem Komputer*, vol. 9, no. 1, pp. 67–73, 2020.
- [14] A. B. Praja, D. Darmansah, and S. Wijayanto, "Sistem informasi pencatatan surat masuk dan surat keluar berbasis website menggunakan metode waterfall," *Jurnal Sistem Komputer dan Informatika*, vol. 3, no. 3, pp. 273–282, 2022.
- [15] H.-Y. Tsai, Y. Kuwahara, Y. Ieiri, and R. Hishiyama, *Vision-Based Indoor Positioning (VBIP) - An Indoor AR Navigation System with a Virtual Tour Guide*, 08 2019, pp. 96–109.
- [16] G. Gerstweiler, E. Vonach, and H. Kaufmann, "Hymotrack: A mobile ar navigation system for complex indoor environments," *Sensors*, vol. 16, p. 17, 12 2015.
- [17] S. Roy and U. Kanjilal, "Web based augmented reality for information delivery services a performance study," *DESIDOC Journal of Library Information Technology*, vol. 41, pp. 167–174, 06 2021.
- [18] K. McNally and H. Kolivand, "A web-based augmented reality system," *EAI Endorsed Transactions on Scalable Information Systems*, pp. 1–8, March 2024. [Online]. Available: <http://doi.org/10.4108/eetsis.5481>
- [19] J. Ferrão, P. Dias, B. Santos, and M. Oliveira, "Environment-aware rendering and interaction in web-based augmented reality," *SSRN Electronic Journal*, 01 2022.
- [20] X. Qiao, P. Ren, S. Dustdar, L. Liu, H. Ma, and J. Chen, "Web ar: A promising future for mobile augmented reality—state of the art, challenges, and insights," *Proceedings of the IEEE*, vol. 107, no. 4, pp. 651–666, 2019.
- [21] F. Arena, M. Collotta, G. Pau, and F. Termine, "An overview of augmented reality," *Computers*, vol. 11, p. 28, 02 2022.
- [22] I. Rabbi and S. Ullah, "A survey of augmented reality challenges and tracking," *ACTA GRAPHICA*, vol. 24, pp. 29–46, 02 2013.
- [23] S. Siltanen, "Theory and applications of marker-based augmented reality: Licentiate thesis," 2012.
- [24] M. A. Muhammad, H. D. Septama *et al.*, "Augmented reality berbasis image marker tracking untuk sistem pengenalan buku di perpustakaan," *Jurnal Profesi Insinyur Universitas Lampung*, vol. 2, no. 2, pp. 30–35, 2021.
- [25] M. K. Mokhtar, F. Mohamed, M. S. Sunar, A. A. Abd Aziz, M. A. M. Arshad, and M. K. M. Sidik, "Image features detection and tracking for image based target augmented reality application," in *2019 IEEE Conference on Graphics and Media (GAME)*. IEEE, 2019, pp. 38–43.
- [26] C. E. Mendoza-Ramírez, J. C. Tudon-Martínez, L. C. Félix-Herrán, J. d. J. Lozoya-Santos, and A. Vargas-Martínez, "Augmented reality: survey," *Applied Sciences*, vol. 13, no. 18, p. 10491, 2023.

- [27] U. Neumann and S. You, "Natural feature tracking for augmented reality," *IEEE Transactions on Multimedia*, vol. 1, no. 1, pp. 53–64, 1999.
- [28] S. Ćuković, M. Gattullo, F. Pankratz, G. Devedžić, E. Carrabba, and K. Baizid, "Marker based vs. natural feature tracking augmented reality visualization of the 3d foot phantom," in *The International Conference on Electrical and Bio-medical Engineering, Clean Energy and Green Computing (EBECEGC2015)*, 2015, pp. 24–31.
- [29] "Ar.js documentation," 2022. [Online]. Available: <https://ar-js-org.github.io/AR.js-Docs/>
- [30] J. Martin and J. Bohuslava, "Augmented reality as an instrument for teaching industrial automation," in *2018 cybernetics & informatics (K&I)*. IEEE, 2018, pp. 1–5.
- [31] E. Liu, S. Cai, Z. Liu, and C. Liu, "Webart: Web-based augmented reality learning resources authoring tool and its user experience study among teachers," *IEEE Transactions on Learning Technologies*, vol. 16, no. 1, pp. 53–65, 2022.
- [32] "A-frame – make webvr," 2025. [Online]. Available: <https://aframe.io/>
- [33] T. Contributors, "Three.js documentation," 2025. [Online]. Available: <https://threejs.org/docs>
- [34] B. Wang, X. Liu, B. Yu, R. Jia, and X. Gan, "Pedestrian dead reckoning based on motion mode recognition using a smartphone," *Sensors*, vol. 18, p. 1811, 06 2018.
- [35] L. Huang, H. Li, W. Li, W. Wu, and X. Kang, "Improvement of pedestrian dead reckoning algorithm for indoor positioning by using step length estimation," *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. XLVIII-3/W1-2022, pp. 19–24, 10 2022.
- [36] X. Hou and J. Bergmann, "Pedestrian dead reckoning with wearable sensors: A systematic review," *IEEE Sensors Journal*, vol. 21, no. 1, pp. 143–152, 2021.
- [37] Y. Jin, H.-S. Toh, W.-S. Soh, and W.-C. Wong, "A robust dead-reckoning pedestrian tracking system with low cost sensors," in *2011 IEEE International Conference on Pervasive Computing and Communications (PerCom)*, 2011, pp. 222–230.
- [38] S. Ayub, X. Zhou, S. Honary, A. Bahraminasab, and B. Honary, "Indoor pedestrian displacement estimation using smart phone inertial sensors," *International Journal of Innovative Computing and Applications*, vol. 4, pp. 35–42, 03 2012.
- [39] A. R. Pratama, Widyawan, and R. Hidayat, "Smartphone-based pedestrian dead reckoning as an indoor positioning system," in *2012 International Conference on System Engineering and Technology (ICSET)*, 2012, pp. 1–6.
- [40] H. Weinberg, "Using the adxl202 in pedometer and personal navigation applications," *Analog Devices AN-602 application note*, vol. 2, no. 2, pp. 1–6, 2002.

- [41] Q. Ladetto, "On foot navigation: continuous step calibration using both complementary recursive prediction and adaptive kalman filtering," in *Proceedings of the 13th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GPS 2000)*, 2000, pp. 1735–1740.
- [42] S. Microelectronics, "Using lsm303dlh for a tilt compensated electronic compass," <http://www.st.com/stonline/products/literature/an/17>, vol. 3, no. 3, p. 3, 2020.
- [43] X. Zhuang, P. Li, D. Li, and W. Sui, *Introductory Chapter: Gyroscopes - Principles and Applications*, 05 2020.
- [44] N. O-larnnithipong and A. Barreto, "Gyroscope drift correction algorithm for inertial measurement unit used in hand motion tracking," in *2016 IEEE SENSORS*, 2016, pp. 1–3.
- [45] L. Bai, "3d orientation estimation using inertial sensors," *Journal of Electrical Technology UMY*, vol. 6, pp. 12–21, 06 2022.
- [46] A. Abadleh, E. Al-Hawari, E. Alkafaween, and H. Al-Sawalqah, "Step detection algorithm for accurate distance estimation using dynamic step length," in *2017 18th IEEE International Conference on Mobile Data Management (MDM)*, 2017, pp. 324–327.
- [47] N. J. Unwin and A. J. Postula, "Filtering of magnetic noise induced in magnetometers by motors of micro-rotary aerial vehicle." *CENICS 2015*, p. 24, 2015.
- [48] M. L. Webb and A. C. White, "Environmental noise reduction for magnetometry," Jul. 22 2014, uS Patent 8,786,277.
- [49] D. Scaramuzza and Z. Zhang, "Visual-inertial odometry of aerial robots," *arXiv preprint arXiv:1906.03289*, 2019.
- [50] Z. Wang, S. Huang, and G. Dissanayake, *Simultaneous Localization and Mapping: Exactly Sparse Information Filters*, 05 2011.
- [51] C. A. Setiabudi, "Indoor positioning system using ble for tracking dynamic user positions," *International Journal of Emerging Trends in Engineering Research*, vol. 8, no. 2, p. 455–463, Feb 2020.
- [52] A. Arisandi, "Penentuan indoor positioning memanfaatkan rssi beacons berbasis bluetooth low energy," 2019. [Online]. Available: <https://repository.telkomuniversity.ac.id/pustaka/154324/penentuan-indoor-positioning-memanfaatkan-rssi-beacons-berbasis-bluetooth-low-energy.html>
- [53] Feb 2023. [Online]. Available: <https://developer.mozilla.org/en-US/docs/Web/API>
- [54] F. Siva, S. Assegaf, S. Pahlevi, and M. A. Yaqin, "Survei metode-metode software development life cycle dengan metode systematic literature review," *ILKOMNIKA: Journal of Computer Science and Applied Informatics*, vol. 5, pp. 36–52, 08 2023.

- [55] A. Sinha and P. Das, "Agile methodology vs. traditional waterfall sdlc: A case study on quality assurance process in software industry," in *2021 5th International Conference on Electronics, Materials Engineering Nano-Technology (IEMENTech)*, 2021, pp. 1–4.
- [56] M. A. Fauzi, H. Tribiako, A. Moniva, F. Amir, I. K. Ilyas, and E. Utami, "Systematic literature reviews on rapid application development information system," *Bulletin of Computer Science and Electrical Engineering*, vol. 4, no. 1, p. 57–64, Jun. 2023. [Online]. Available: <http://bcsee.org/index.php/bcsee/article/view/1181>
- [57] P. Beynon-Davies, C. Carne, H. Mackay, and D. Tudhope, "Rapid application development (rad): an empirical review," *European Journal of Information Systems*, vol. 8, no. 3, pp. 211–223, 1999. [Online]. Available: <https://doi.org/10.1057/palgrave.ejis.3000325>
- [58] M. Rizwan and M. Iqbal, "Application of 80/20 rule in software engineering rapid application development (rad) model," vol. 181, 06 2011.
- [59] D. Alvarez, R. C. Gonzalez, A. Lopez, and J. C. Alvarez, "Comparison of step length estimators from wearable accelerometer devices," in *2006 International Conference of the IEEE Engineering in Medicine and Biology Society*, 2006, pp. 5964–5967.