

DAFTAR PUSTAKA

- [1] R. S. Oktari, Syamsidik, R. Idroes, H. Sofyan, and K. Munadi, "City resilience towards coastal hazards: An integrated bottom-up and top-down assessment," *Water (Switzerland)*, vol. 12, no. 10, 2020, doi: 10.3390/w12102823.
- [2] N. Bennuwardana, S. Martha, Y. Prihanto, and D. Waluyo, "Spatial Analysis of Flood Risk Projections in Aceh Province Using Coupled Model Intercomparison Project Phase 6 (CMIP6) Climate Models and GIS," vol. 4, no. 8, pp. 2819–2838, 2025.
- [3] M. Azzanna, "Pembuatan Jalur Evakuasi Banjir Di Kota Banda Aceh Menggunakan Sistem Informasi Geografis Dengan Metode Closest Facility Analysis," *J. Sist. Inf. Kaputama (JSIK)*, vol. 9, no. 2, pp. 81–97, 2025.
- [4] ICLEI - Local Governments for Sustainability, "Disaster Risk Reduction Towards Flood Resilience in Banda Aceh, Indonesia," pp. 1–4.
- [5] S. Sugianto, A. Deli, E. Miswar, M. Rusdi, and M. Irham, "The Effect of Land Use and Land Cover Changes on Flood Occurrence in Teunom Watershed, Aceh Jaya," *Land*, vol. 11, no. 8, 2022, doi: 10.3390/land11081271.
- [6] T. Ferijal and A. Fauzi, "Analysis of Local Climate Change Impacts on the Rainfall Patterns and Dry Spells in Banda Aceh and Aceh Besar, Indonesia," *Int. J. Des. Nat. Ecodynamics*, vol. 19, no. 3, pp. 947–954, 2024, doi: 10.18280/ij dne.190324.
- [7] M. Arya, F. Ayyada, and D. N. Sari, "Analisis Kerawanan Bencana Banjir dan Arah Evakuasi berbasis SIG di DAS Tukad Mati Bali," no. 02, pp. 297–308, 2025.
- [8] D. Caroline and A. P. R. Pinem, "Sistem Informasi Geografis Penentuan Rute Evakuasi Kawasan Rawan Banjir Di Kabupaten Kudus," *J. Sains Inf. Geogr.*, vol. 7, no. 1, p. 46, 2024, doi: 10.31314/jsig.v7i1.2812.
- [9] H. Jusuf and M. R. Nakoe, "Analisis Spasial Titik Lokasi Dan Jalur Evakuasi Dalam Mitigasi Pengurangan Risiko Bencana Banjir Kelurahan Biawu Kecamatan Kota Selatan Kota Gorontalo Spatial Analysis of Location Points and Evacuation Routes in Flood Disaster Risk Reduction Mitigation i," vol. 8, no. 6, pp. 3756–3767, 2025, doi: 10.56338/jks.v8i6.7905.
- [10] M. Rendana, W. Mohd Razi Idris, S. Abdul Rahim, H. G. Abdo, H. Almohamad, and A. Abdullah Al Dughairi, "Flood risk and tempat evakuasi suitability mapping using geospatial technique for sustainable urban flood management: a case study in Palembang city, South Sumatera, Indonesia," *Geol. Ecol. Landscapes*, vol. 9, no. 2, pp. 452–462, 2025, doi: 10.1080/24749508.2023.2205717.
- [11] I. P. Putra, N. Neneng, and D. A. Megawaty, "Sistem Informasi Geografis

- Untuk Pemetaan Jalur Evakuasi Bencana Tsunami Di Desa Way Muli Kabupaten Lampung Selatan,” *J. Inform. dan Rekayasa Perangkat Lunak*, vol. 4, no. 1, pp. 67–73, 2023, doi: 10.33365/jatika.v4i1.2467.
- [12] D. Q. Tri, N. V Nhat, Q. T. T. Tuyet, H. T. T. Pham, P. T. Duc, and N. Thanh Thuy, “Applying an Analytic Hierarchy Process and a Geographic Information System for Assessment of Land Subsidence Risk Due to Drought: A Case Study in Ca Mau Peninsula,” *Vietnam. Sustain.*, vol. 16, no. 7, p. 2920, 2024, doi: 10.3390/su16072920.
- [13] A. Aswad Janfari, A. Hidayat, and R. Yorika, “Pemetaan Kawasan Rawan Bencana Banjir dan Penentuan Jalur Evakuasi dengan Metode Network Analysis di Kecamatan Sangatta Utara Mapping of Flood Prone Areas and Determination of Evacuation Routes using Network Analysis Method in Sangatta Utara Sub-district,” *Umar Mustofa / J. Urban Reg. Spat.*, vol. 4, no. 3, pp. 213–219, 2024, [Online]. Available: <https://ejournalfakultasteknikunibos.id/index.php/jups>
- [14] M. Fitriyani and D. Ahmad, “implementasi Ant Colony Optimization Algorithm (ACO) Untuk pemilihan jalur tercepat evakuasi bencana tsunami oleh tim sar di kota padang,” *J. Ris. dan Apl. Mat.*, vol. 8, no. 1, pp. 78–84, 2024, doi: 10.26740/jram.v8n1.p78-84.
- [15] M. Maulana and M. Munsarif, “Optimasi Rute Perjalanan di Jawa Timur Menggunakan Algoritma Ant Colony Optimization,” *J. Komput. Dan Teknol. Inf.*, vol. 3, no. 2, pp. 1–5, 2025, doi: 10.26714/jkti.v3i2.16258.
- [16] P. Duan, S. Xiong, and H. Jiang, “Multi-objective optimization model based on heuristic ant colony algorithm for emergency evacuation,” *IEEE Conf. Intell. Transp. Syst. Proceedings, ITSC*, pp. 1258–1262, 2012, doi: 10.1109/ITSC.2012.6338611.
- [17] Z. Hao, Y. Wang, and X. Yang, “Every Second Counts: A Comprehensive Review of Route Optimization and Priority Control for Urban Emergency Vehicles,” *Sustain.*, vol. 16, no. 7, pp. 1–24, 2024, doi: 10.3390/su16072917.
- [18] D. Shiri, V. Akbari, and F. S. Salman, *Online algorithms for ambulance routing in disaster response with time-varying victim conditions*, vol. 46, no. 3. Springer Berlin Heidelberg, 2024. doi: 10.1007/s00291-024-00744-4.
- [19] N. Alfa Husna, D. Hendri, H. Zainel Haq, and A. Rahmadyan, “Implementasi Algoritma Ant Colony Optimization untuk Penentuan Jalur Terpendek Klinik dari Lokasi Rawan Kecelakaan di Kota Pekanbaru,” *SENTIMAS Semin. Nas. Penelit. dan Pengabd. Masy.*, pp. 112–119, 2023.
- [20] M. Hosseini, R. B. Berlin, and L. Sha, “Physiology-Aware Rural Ambulance Routing,” *Proc. - 2017 IEEE Int. Conf. Healthc. Informatics, ICHI 2017*, pp. 332–337, 2017, doi: 10.1109/ICHI.2017.27.
- [21] A. L. Ruchban, R. Saparudin Darwis, and H. Wibowo, “Elemen Kebijakan Pemerintah Dalam Penanggulangan Bencana Di Indonesia,” *Kebijak. J.*

- Ilmu Adm.*, vol. 15, no. 1, pp. 79–88, 2024, doi: 10.23969/kebijakan.v15i1.9276.
- [22] S. Cempaka, A. Risdan Ardiansyah, L. Rahmawati, M. Yunia Rediana, and R. Koswara, “Kebijakan Pemerintah dalam Penanggulangan Bencana di Indonesia (Government Policy regarding Disaster Management in Indonesia),” *J. Stud. Ilmu Sos. dan Polit.*, vol. 1, no. 1, pp. 35–45, 2021, [Online]. Available: <https://doi.org/10.35912/jasispol.v1i1.184>
 - [23] H. N. Asmara, “Implementasi Undang-Undang Nomor 24 tahun 2007 tentang Penanggulangan Bencana di Samarinda,” *Nomos J. Penelit. Ilmu Huk.*, vol. 3, no. 3, pp. 84–91, 2023, doi: 10.56393/nomos.v3i3.1612.
 - [24] X. Li, R. Chen, Y. Ren, and C. Y. Jim, “Intrinsic drivers of urban flood disasters from the resilience perspective in China,” *Reliab. Eng. Syst. Saf.*, vol. 265, p. 111596, 2025, doi: <https://doi.org/10.1016/j.ress.2025.111596>.
 - [25] M. Isa and A. Mardalis, “Flood vulnerability and economic valuation of small and medium-sized enterprise owners to enhance sustainability,” *Jamba J. Disaster Risk Stud.*, vol. 14, no. 1, pp. 1–7, 2022, doi: 10.4102/JAMBA.V14I1.1306.
 - [26] A. Sigit, M. Koyama, and M. Harada, “Flood Risk Assessment Focusing on Exposed Social Characteristics in Central Java, Indonesia,” *Sustain.*, vol. 15, no. 24, 2023, doi: 10.3390/su152416856.
 - [27] C. Agonafir, T. Lakhankar, R. Khanbilvardi, N. Krakauer, D. Radell, and N. Devineni, “A review of recent advances in urban flood research,” *Water Secur.*, vol. 19, no. July, p. 100141, 2023, doi: 10.1016/j.wasec.2023.100141.
 - [28] Nurlaela and R. Z. Maliki, “Dampak Banjir Rob Terhadap Perekonomian Masyarakat Pasca Bencana Gempa Bumi 2018 Di Desa Tompe Kecamatan Sirenja,” *J. Manaj. dan Kebijak. Publik*, vol. 10, pp. 1–23, 2025.
 - [29] S. K. Balaian, B. F. Sanders, and M. J. Abdolhosseini Qomi, “How urban form impacts flooding,” *Nat. Commun.*, vol. 15, no. 1, pp. 1–10, 2024, doi: 10.1038/s41467-024-50347-4.
 - [30] P. Dang, J. Zhu, C. Dang, and H. Zhang, “A method for assessing urban flood impacts by combining hydrodynamic models with entity semantic evolution,” *Int. J. Digit. Earth*, vol. 18, no. 1, pp. 1–25, 2025, doi: 10.1080/17538947.2025.2515268.
 - [31] M. Wiering *et al.*, “Recognising floods, recognising people? Flood risk management in riverfront urban kampongs of Indonesia,” *J. Flood Risk Manag.*, vol. 18, no. 1, pp. 1–15, 2025, doi: 10.1111/jfr3.13014.
 - [32] J. F. Kegel, E. MacAfee, and E. de Jong, “Desensitised flood risk perception to extensive disasters in a marginalised urban kampung in Indonesia,” *Environ. Hazards*, vol. 24, no. 1, pp. 91–112, 2025, doi: 10.1080/17477891.2024.2343404.

- [33] Y. Anwar, M. V. R. Ningrum, and I. Setyasih, "Dampak Bencana Banjir Terhadap Ekonomi Masyarakat di Kecamatan Samarinda Utara, Kota Samarinda," *JPG (Jurnal Pendidik. Geogr.*, vol. 9, no. 1, pp. 40–48, 2022, doi: 10.20527/jpg.v9i1.12457.
- [34] F. B. Arashi *et al.*, "Analisis Dampak Bencana Banjir terhadap Kondisi Sosial dan Ekonomi pada Masyarakat," *J. Civ. Eng.*, vol. 6, no. 2, pp. 56–64, 2024.
- [35] Isnugroho, "Tinjauan Penyebab Banjir dan Upaya Penanggulangan Alami," *J. Air, Lahan, Lingkungan, dan Mitigasi Bencana*, Vol. 7, No. 2, 1-10., vol. 4, pp. 1923–1932, 2006, [Online]. Available: <http://journal.universitaspahlawan.ac.id/index.php/jkt/article/view/15566%0Ahttp://journal.universitaspahlawan.ac.id/index.php/jkt/article/download/15566/12382>
- [36] D. M. I. Fadhillah Rachm Alya, "Menelaah Dampak Ekonomi Dan Upaya Pemulihan," *J. Ekon. Bisnis, dan Pendidik.*, vol. 4, no. 5, pp. 1–7, 2024, doi: 10.17977/um066.v4.i1.2024.1.
- [37] A. N. Hidayah, Y. Siswanto, A. Dyah, N. Sari, A. P. Heryanda, and D. Pamuji, "Analisis Kerentanan Kesehatan Penduduk Pasca Bencana," *Pro Heal. J. Ilm. Kesehat.*, vol. 6, no. 1, pp. 13–19, 2024.
- [38] M. R. Lessy, N. Wahiddin, J. Bemba, and M. Aswan, "Analisis Potensi Genangan Tsunami dan Penentuan Jalur Evakuasi Berbasis Sistem Informasi Geografis di Desa Daruba Pantai – Kabupaten Pulau Morotai," *J. Wil. dan Lingkung.*, vol. 9, no. 1, pp. 79–91, 2021, doi: 10.14710/jwl.9.1.79-91.
- [39] S. Park, G. Lee, and J. O. Kim, "Flood evacuation mapping using a time-distance cartogram," *ISPRS Int. J. Geo-Information*, vol. 9, no. 4, 2020, doi: 10.3390/ijgi9040207.
- [40] M. Lasaiba, "Analisis Multikriteria Berbasis Sistem Informasi Geografis (SIG) terhadap Bahaya dan Resiko Banjir di Kecamatan Sirimau Kota Ambon," *J. Geosains dan Remote Sens.*, vol. 4, no. 2, pp. 77–90, 2023, doi: 10.23960/jgrs.ft.unila.146.
- [41] A. Wahdana, Nurdin, and Sujacka Retno, "Geographic Information System for Mapping Accommodation Locations in Lhokseumawe City Using the AHP Method and Dijkstra's Algorithm," *J. Appl. Informatics Comput.*, vol. 9, no. 3, pp. 1050–1057, 2025, doi: 10.30871/jaic.v9i3.9597.
- [42] L. Fitriani and S. V. Margaretha, "Perancangan Sistem Informasi Reservasi Hotel Berbasis Android dengan Menerapkan Geographic Information System," *J. Algoritma.*, vol. 18, no. 2, pp. 531–538, 2022, doi: 10.33364/algoritma/v.18-2.840.
- [43] J. G. Gacu, C. E. F. Monjardin, D. B. Senoro, and F. J. Tan, "Flood Risk Assessment Using GIS-Based Analytical Hierarchy Process in the Municipality of Odiongan, Romblon, Philippines," *Appl. Sci.*, vol. 12, no. 19, 2022, doi: 10.3390/app12199456.

- [44] D. Darmanto, S. Usman, and I. Pratiwi, "Sistem Informasi Pemetaan Wilayah Rawan Banjir Pada BPBD Kabupaten Ketapang dalam Mitigasi Bencana," *Smart Comp Jurnalnya Orang Pint. Komput.*, vol. 11, no. 4, pp. 704–713, 2022, doi: 10.30591/smartcomp.v11i4.4259.
- [45] K. P. Bolanio, A. C. Gagula, M. M. Bermoy, J. M. B. Jagna, and S. M. Coquilla, "Mapping and assessment of flood evacuation sites in a geospatial environment: A case in Las Nieves, Agusan Del Norte, Philippines," *Int. Arch. Photogramm. Remote Sens. Spat. Inf. Sci. - ISPRS Arch.*, vol. 48, no. 4, pp. 473–482, 2023, doi: 10.5194/isprs-archives-XLVIII-4-W6-2022-473-2023.
- [46] J. Yang, O. Alisan, M. Ma, E. E. Ozguven, W. Huang, and L. Vijayan, "Spatial Accessibility Analysis of Emergency Tempat evakuasi with a Consideration of Sea Level Rise in Northwest Florida," *Sustain.*, vol. 15, no. 13, 2023, doi: 10.3390/su151310263.
- [47] Moh. Ali Ma'sum, "Penentuan Penampungan Korban Banjir Di Kecamatan Laweyan Kota Surakarta Berbasis Sistem Informasi Geografis," *SATESI J. Sains Teknol. dan Sist. Inf.*, vol. 1, no. 2, pp. 55–60, 2021, doi: 10.54259/satesi.v1i2.25.
- [48] A. Strzalka, J. Malicki, and J. Blachowski, "Least-Cost-Path and Closest Facility Analysis for Generating District Heating Networks on a Communal Level," *Appl. Sci.*, vol. 14, no. 2, 2024, doi: 10.3390/app14020763.
- [49] L. Makacha *et al.*, "Is the closest health facility the one used in pregnancy care-seeking? A cross-sectional comparative analysis of self-reported and modelled geographical access to maternal care in Mozambique, India and Pakistan," *Int. J. Health Geogr.*, vol. 19, no. 1, pp. 1–10, 2020, doi: 10.1186/s12942-020-0197-5.
- [50] D. C. Adilang, A. E. Tungka, and F. Warouw, "Pemetaan Jalur Evakuasi Tsunami Dengan Metode Network Analyst Berbasis Sig Di Kota Manado Tsunami Evacuation Route Mapping Using Network Analyst Method Based on Gis in Manado City," *J. Spasial*, vol. 9, no. 1, p. 2022, 2022.
- [51] H. Agung, "Sistem Penentuan Jarak Terpendek Berdasarkan Data Coordinate Menggunakan Algoritma Dijkstra Dalam Kasus Pengantaran Barang Se-Jabodetabek," *J. Sisfokom (Sistem Inf. dan Komputer)*, vol. 8, no. 1, pp. 14–23, 2021, doi: 10.32736/sisfokom.v8i1.587.
- [52] Y. Santoso and H. P. Chernovita, "Pemetaan Jalur Evakuasi Tsunami Di Kota Bengkulu Berbasis Arcgis Hub," *J. Sains Inf. Geogr.*, vol. 5, no. 2, p. 67, 2022, doi: 10.31314/jsig.v5i2.1706.
- [53] C. A. Wibowo and I. D. M. F. Septanaya, "Skenario Penyediaan Pos Pemadam Kebakaran Untuk Melayani Bangunan Tinggi di Kota Surabaya Berdasarkan Waktu Tanggap Ideal," *J. Penataan Ruang*, vol. 19, no. 1, p. 31, 2024, doi: 10.12962/j2716179x.v19i0.21087.
- [54] C. A. Lippi *et al.*, "A network analysis framework to improve the delivery

- of mosquito abatement services in Machala, Ecuador,” *Int. J. Health Geogr.*, vol. 19, no. 1, pp. 1–14, 2021, doi: 10.1186/s12942-020-0196-6.
- [55] D. W. Nugraha, Amriana, and R. Setiawati, “Implementasi algoritma Ant Colony Optimization (ACO) pada pencarian jalur terpendek Automatic Teller Machine (ATM) di Kota Palu,” *J. Nas. Inform. dan Teknol. Jar.*, vol. 4, no. 2, pp. 191–202, 2020.
- [56] J. Peranginangin, R. Purba, and A. Halim, “Analisis Perbandingan Algoritma ACO-TS dan ACO-SMARTER Dalam Menyelesaikan Traveling Salesman Problem,” *J. Media Inform. Budidarma*, vol. 5, no. 4, p. 1698, 2021, doi: 10.30865/mib.v5i4.3283.
- [57] M. D. Khairansyah, M. Luqman Ashari, and I. Mufidah, “Penentuan Jalur Evakuasi Terpendek Pada Industri Plastik Menggunakan Ant Colony Optimization,” *J. Keselam. Transp. Jalan (Indonesian J. Road Safety)*, vol. 8, no. 1, pp. 53–61, 2021, doi: 10.46447/ktj.v8i1.312.
- [58] I. S. Kirom and A. A. Soebroto, “Implementasi Algoritma Ant Colony Optomozation untuk Rekomendasi Rute Terpendek pada Usaha Thrifting di Kota Malang,” *J. Pengemb. Teknol. Inf. dan Ilmu Komput.*, vol. 1, no. 1, pp. 2548–964, 2022, [Online]. Available: <http://j-ptiik.ub.ac.id>
- [59] A. Ihsan, T. A. Adlie, and S. Harliansyah, “Optimalisasi Pencarian Jalur Terpendek Mobile Robot dengan Menggunakan Metode Ant Colony Optimization (ACO),” *Techne J. Ilm. Elektrotek.*, vol. 23, no. 1, pp. 39–54, 2024, doi: 10.31358/techne.v23i1.389.
- [60] Y. D. Prasetyo, A. M. Armond, and W. Ediningrum, “Penerapan Model Matematika Algoritma Ant Colony Optimization Dalam Penentuan Rute Bus Trans Banyumas,” *J. Math. Paedagog.*, vol. 7, no. 1, pp. 12–23, 2022, doi: 10.36294/jmp.v7i1.2701.
- [61] N. Nurdin, A. Darmansyah, and F. Fajriana, “Aplikasi Pemetaan Lokasi Distribusi Gas Elpiji 3 Kg Menggunakan Algoritma Ant Colony Berbasis Android,” *J. CoreIT J. Has. Penelit. Ilmu Komput. dan Teknol. Inf.*, vol. 6, no. 1, p. 30, 2020, doi: 10.24014/coreit.v6i1.9439.
- [62] F. Suryana, N. Nurdin, and D. Hamdhana, “Implementation of Ant Colony Optimization (ACO) Algorithm for Route Optimization of Tourist Paths in Takengon,” *J. Appl. Informatics Comput.*, vol. 9, no. 4, pp. 1886–1896, 2025, doi: 10.30871/jaic.v9i4.9706.
- [63] Y. A. Kulyk, B. P. Knysh, and V. M. Papinov, “MODELING OF THE TERRITORY SURVEY BY MEANS OF THE UNMANNED AERIAL VEHICLES ON THE BASE OF THE ANT COLONY OPTIMIZATION ALGORITHM (Eng),” *Sci. Work. Vinnytsia Natl. Tech. Univ.*, no. 3, pp. 1–9, 2022, doi: 10.31649/2307-5392-2022-3-1-9.
- [64] A. Alamri, “A Smart Spatial Routing and Accessibility Analysis System for EMS Using Catchment Areas of Voronoi Spatial Model and Time-Based Dijkstra ’ s Routing Algorithm,” 2023.

- [65] N. Li *et al.*, “Design of Intelligent Firefighting and Smart Escape Route Planning System Based on Improved Ant Colony Algorithm,” 2024.
- [66] G. Parajuli, S. Neupane, S. Kunwar, R. Adhikari, and T. D. Acharya, “A GIS-Based Evacuation Route Planning in Flood-Susceptible Area of Siraha Municipality, Nepal,” *ISPRS Int. J. Geo-Information*, vol. 12, no. 7, 2023, doi: 10.3390/ijgi12070286.
- [67] V. Korolov, K. Kurowska, O. Korolova, Y. Zaiets, I. Milkovich, and H. Kryszk, “Methodology for determining the nearest destinations for the evacuation of people and equipment from a disaster area to a safe area,” *Remote Sens.*, vol. 13, no. 11, 2021, doi: 10.3390/rs13112170.
- [68] R. I. Liperda, Barandika, B. Syahza, B. Putri Dewi, M. Alif Furqan, and N. L. Rachmawati, “Determination of closest facility tsunami evacuation building using GIS Heuristic Method: A Case Study of Meuraxa District, Banda Aceh City,” *JENIUS J. Terap. Tek. Ind.*, vol. 5, no. 1, pp. 106–118, 2024, doi: 10.37373/jenius.v5i1.909.
- [69] H. Nirwana, W. Firgiawan, S. Cokrowibowo, and Z. Zainuddin, “An Intelligent Optimazitation Method for Evacuation Route Planning in the Occurrence of Natural Disasters,” *Eng. Technol. Appl. Sci. Res.*, vol. 14, no. 6, pp. 17696–17703, 2024, doi: 10.48084/etasr.8538.
- [70] J. Kubás, J. Ristvej, B. Kollár, K. Petrlová, A. Trličíková, and K. Blažková, “Evacuation Transport Provision Design Using Network Analysis With Gis Support,” *Commun. - Sci. Lett. Univ. Zilina*, vol. 27, no. 3, pp. F13–F27, 2025, doi: 10.26552/com.C.2025.044.
- [71] A. Taran, “Measuring Accessibility to Health Care Centers in the City of Al-Mafraq Using Geographic Information Systems,” *Int. J. Geoinformatics*, vol. 19, no. 1, pp. 43–55, 2023, doi: 10.52939/ijg.v19i1.2499.
- [72] T. T. Thein, M. Z. Soe, P. V. Rao, and T. Aung, “Geographic Information System (GIS) in Evaluating the Accessibility of Healthcare Facility for Patients with Colon and Rectal Carcinoma in the State of Kelantan and Sabah,” *Int. J. Geoinformatics*, vol. 17, no. 5, pp. 193–194, 2021, doi: 10.52939/ijg.v17i5.2035.
- [73] E. K. Hamza, L. A. Mohammed, and A. M. Hasan, “Dynamic Parameter Adjustment in Ant Colony Optimization for Energy Efficiency in Wireless Sensor Network,” *J. Eng. Sci. Technol.*, vol. 19, no. 6, pp. 2225–2249, 2024.
- [74] S. Kang and M. J. Yu, “Ant-mutated immune particle filter design for terrain referenced navigation with interferometric radar altimeter,” *Remote Sens.*, vol. 13, no. 11, pp. 1–23, 2021, doi: 10.3390/rs13112189.
- [75] A. Gupta and S. Saini, “An Enhanced Ant Colony Optimization Algorithm for Vehicle Routing Problem with Time Windows,” *2017 9th Int. Conf. Adv. Comput. ICoAC 2017*, vol. 23, no. 2, pp. 267–274, 2022, doi: 10.1109/ICoAC.2017.8441175.