DAFTAR PUSTAKA

Alahmadi, D. H., & Jamjoom, A. A. (2022). Decision support system for handling control decisions and decision-maker related to supply chain. *Journal of Big Data*, *9*(114). https://doi.org/10.1186/s40537-022-00653-9

Alfarizi, M. R. S., Al-Farish, M. Z., Taufiqurrahman, M., Ardiansah, G., & Elgar, M. (2023). Penggunaan Python Sebagai Bahasa Pemrograman untuk Machine Learning dan Deep Learning. *Karimah Tauhid*, *2*(1), 1–6. https://doi.org/10.30997/karimahtauhid.v2i1.7518

Alhakami, W. (2023). Computational Study of Security Risk Evaluation in Energy Management and Control Systems Based on a Fuzzy MCDM Method. *Processes*, *11*(5). https://doi.org/10.3390/pr11051366

Almotiri, S. H. (2024). Improving network resilience against DDoS attacks: A fuzzy TOPSIS-based quantitative assessment approach. *Heliyon*, *10*(22). https://doi.org/10.1016/j.heliyon.2024.e40413

Alnajim, A. M., Khan, A. W., Zaib, S., Algamdi, S., & Khan, F. (2026). Cyber security challenges for software vendors through a fuzzy-TOPSIS approach. *PeerJ Computer Science*, *12*, e3337. https://doi.org/10.7717/peerj-cs.3337

Alshahrani, H. M., Alotaibi, S. S., Ansari, M. T. J., Asiri, M. M., Agrawal, A., Khan, R. A., Mohsen, H., & Hilal, A. M. (2022). Analysis and Ranking of IT Risk Factors Using Fuzzy TOPSIS-Based Approach. *Applied Sciences (Switzerland)*, *12*(12). https://doi.org/10.3390/app12125911

Alzahrani, F. A., Ahmad, M., & Ansari, M. T. J. (2022). Towards Design and Development of Security Assessment Framework for Internet of Medical Things. *Applied Sciences (Switzerland)*, *12*(16). https://doi.org/10.3390/app12168148

Azhar, N. A., Radzi, N. A. M., & Wan Ahmad, W. S. H. M. (2021). Multi-criteria Decision Making: A Systematic Review. *(Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering)*, *14*(8), 779–801. https://doi.org/10.2174/2352096514666211029112443

Azza, M., Nuha, U., Windarta, S., Salman, M., Indonesia, U., & Siber, P. (2025). *NSOC-VM : KERANGKA KERJA MANAJEMEN KERENTANAN PADA NATIONAL SECURITY OPERATION CENTER NSOC-VM : A VULNERABILITY MANAGEMENT FRAMEWORK FOR NATIONAL SECURITY OPERATION CENTER*. *12*(6).

Chen, C. (2020). *A Novel Multi-Criteria Decision-Making Model for*. 10–12.

Chimezie, E., Alao, D., John, S., & Ocheme, J. (2024). Comprehensive review on cybersecurity: Modern threats and advanced defense strategies. *Cyber Security and Information Technology Research Journal*, *5*(2). https://doi.org/10.51594/csitrj.v5i2.758

Darmawan, F. R., Amalia, E. L., & Rosiani, U. D. (2021). Penerapan Metode Topsis pada Sistem Pendukung Keputusan untuk Kota yang Menerapkan Pembatasan Sosial Berskala Besar yang di Sebabkan Wabah Corona. *Jurnal Sistem Dan Teknologi Informasi (Justin)*, *9*(2), 250.

https://doi.org/10.26418/justin.v9i2.43896

Fitriani, Y. (2024). Evaluasi Sistem Keamanan Website Perusahaan dari Serangan Siber dengan menggunakan Teknik Footprinting dan Vulnerability Scanning. *SNEKTI*, *5*(1).

Fronita M. (2023). Analisis Celah Keamanan Website Sitasi Menggunakan Vulnerability Assessment. *Jurnal Ilmiah Rekayasa Dan Manajemen Sistem Informasi*, *9*(1), 1–7.

Haoxing, Z., & System, C. (n.d.). *No 主観的健康感を中心とした在宅高齢者における 健康関連指標に関する共分散構造分析Title*.

Huda, M., Rahman, M., & Sari, D. (2024). A Cyber Risk Assessment Approach to Federated Identity Management Framework-Based Digital Healthcare System. *Sensors*, *24*(16), 5282. https://doi.org/10.3390/s24165282

Kahraman, C., Cebi, S., & Kaya, I. (2021). A hybrid AHP–TOPSIS approach for decision support. *Knowledge-Based Systems*, *229*, 107337. https://doi.org/10.1016/j.knosys.2021.107337

Karmila, S., Arianto, R., & Rezki, R. (2024). Penerapan Fuzzy C-Means Pada Klasterisasi Karakteristik Pengunjung Website Pmb Stt – Pln Untuk Meningkatkan Kepadatan Kunjungan. *Jurnal Informatika Dan Komputasi: Media Bahasan, Analisa Dan Aplikasi*, *14*(1), 8–17. https://doi.org/10.56956/jiki.v14i1.209

Khan, M. Z., Shoaib, M., Husain, M. S., Ul Nisa, K., & Quasim, M. T. (2024). Enhanced mechanism to prioritize the cloud data privacy factors using AHP

and TOPSIS: a hybrid approach. *Journal of Cloud Computing*, *13*(1). https://doi.org/10.1186/s13677-024-00606-y

Kodrat. (2024). Decision Science Letters. *Decision Science Letters*, *8*(2023), 429–440. https://doi.org/10.5267/dsl.2023.6.005

Kostelić, K. (2025). TOPSIS-based framework for evaluating employee cybersecurity risk. *Croatian Operational Research Review*, *16*(1), 31–44. https://doi.org/10.17535/crorr.2025.0003

Kou, G. (2022). Advances in TOPSIS and Multi-Criteria Decision Making. *Expert Systems with Applications*, *205*, 117–130.

Kou, G., Xu, Y., & Peng, Y. (2022). Recent developments of multi-criteria decision-making and their applications in information security. *Information Sciences*, *608*, 1221–1245. https://doi.org/10.1016/j.ins.2022.06.040

Krisper, M., Dobaj, J., & Macher, G. (2020). Assessing Risk Estimations for Cyber-Security Using *Expert judgment*. *Communications in Computer and Information Science*, *1251 CCIS*, 120–134. https://doi.org/10.1007/978-3-030-56441-4_9

Li, C., & Zhang, R. (2023). Quantitative analysis of attack surface expansion in enterprise networks. *Computers \& Security*, *126*, 103077. https://doi.org/10.1016/j.cose.2023.103077

Liu, J., Li, Y., Xiao, B., & Jiao, J. (2021). Coupling fuzzy multi-criteria decision-making and clustering algorithm for msw landfill site selection (Case study: Lanzhou, China). *ISPRS International Journal of Geo-*

Information, *10*(6). https://doi.org/10.3390/ijgi10060403

Lyu, D., Li, Y., Zhang, Z., Arcaini, P., Zhang, X. Y., Ishikawa, F., & Zhao, J. (2025). Fault localization of AI-enabled cyber–physical systems by exploiting temporal neuron activation. *Journal of Systems and Software*, *229*(March). https://doi.org/10.1016/j.jss.2025.112475

Mavi, R., Mustafa, M., & Wozniak, M. (2021). Applications of TOPSIS in risk assessment: A structured analysis. *Safety Science*, *143*, 105432. https://doi.org/10.1016/j.ssci.2021.105432

Mohd Shabbir. (2025). Evaluating the Impact of Security Risks through Fuzzy AHP-TOPSIS Method. *Journal of Information Systems Engineering and Management*, *10*(25s), 224–236. https://doi.org/10.52783/jisem.v10i25s.3972

Mukhametzyanov, I. Z. (2021). Specific character of objective methods for determining weights of criteria in MCDM problems: Entropy, CRITIC, SD. *Decision Making: Applications in Management and Engineering*, *4*(2), 76–105. https://doi.org/10.31181/DMAME210402076I

Nugroho, R. (2025). Implementasi Visualisasi Data pada Analisis Sistem Informasi. *Informatique Journal*, *12*(1), 20–30.

Nungrum, R. F. (2017). Sistem Pendukung Keputusan Promosi Jabatan Struktural Dosen Menggunakan AHP (Analytical Hierarchy Process). *Jurnal Teknik*, *6*(2). https://doi.org/10.31000/jt.v6i2.453

Nurhidayat, T. (2024). *KAJIAN KETAHANAN SIBER INDONESIA:*

MANAJEMEN KERENTANAN Kajian Ketahanan Siber : Manajemen Kerentanan 1.

Nurhidayat, T., Oktavianto, D., Dr. Susila Windarta, S.Kom., M.Si. Nanang Trianto, S.ST., M.AP. Iqbal Firmansyah, M. T., & M. Fadhli Maghfur Shofiyuddin, M.Kom Nabella Permatasari, S. T. K. S. (2024). Kajian Ketahanan Siber : Manajemen Kerentanan. *Politeknik Siber Dan Sandi Negara*. https://poltekssn.ac.id/wp-content/uploads/

Pohan, N., AR, H. K., Salsabilla, A. A., Abrianisyah, D. K., & Tanjung, D. (2025). Decision support system for prioritizing tourism development using TOPSIS-Borda method. *Sistem Pendukung Keputusan Dengan Aplikasi*, *4*(1), 17–28.

Pratiwi Sumantri, E., Hafni Sahir, S., & Khairani Daulay, N. (2021). Implementation of Technique for Order Preference by Similarity to Ideal Solution (TOPSIS) in Recommendations for New Position in Companies. *International Journal of Information System & Technology Akreditasi*, *4*(2), 661–669.

Qu, Q. (2024). Visual representation techniques for intuitive data interpretation. *MATEC Web of Conferences*, *409*, 1038–1045.

Rachman Jaya, E., Fitria, E., Yusriana, & Ardiansyah, R. (2020). Implementasi Multi Criteria Decision Making (Mcdm) Pada Agroindustri: Suatu Telaah Literatur. *Jurnal Teknologi Industri Pertanian*, *30*(2), 234–343. https://doi.org/10.24961/j.tek.ind.pert.2020.30.2.234

Rifai, M. (2019). Implementation of CRISP-DM in Data Analytics. *International Journal of Informatics*, *7*(2), 120–130.

Rifai, M. F., Jatnika, H., & Valentino, B. (2019). Penerapan Algoritma Naïve Bayes Pada Sistem Prediksi Tingkat Kelulusan Peserta Sertifikasi Microsoft Office Specialist (MOS). *Petir*, *12*(2), 131–144. https://doi.org/10.33322/petir.v12i2.471

Romero-Organvídez, A., & others. (2024). Data visualization aims to convey quantitative and qualitative information effectively. *Journal of Visual Languages & Computing*, *65*, 1–12.

Rosaly, R., & Prasetyo, A. (2019). Pengertian Flowchart Beserta Fungsi dan Simbol-simbol Flowchart yang Paling Umum Digunakan. *Jurnal Teknologi Informasi*, *XX*(YY), ZZ--AA. URL_Artikel

Scarfone, K., & Souppaya, M. (2021). NIST Guide to Enterprise *Patch* Management Technologies. *Nist*, 18.

Security, I., Assessment, R., Situational, U., Frameworks, A., & Tools, A. (2022). *Awareness Frameworks and Application Tools*. 1–26.

Shimizu, N., & Hashimoto, M. (2025). *Vulnerability Management Chaining: An Integrated Framework for Efficient Cybersecurity Risk Prioritization*. 1–16. http://arxiv.org/abs/2506.01220

Siswipraptini, P. C. (2023). Evaluation Frameworks in Data Mining Projects. *Indonesian Journal of Information Systems*, *8*(3), 210–225.

Siswipraptini, P. C., Fadiarora, A. S., & Sikumbang, H. (2023). Model

Klasifikasi Berbasis Machine Learning Untuk Perpanjangan Masa Jabatan Kepala Sekolah Menggunakan Algoritma C4.5. *Jurnal Indonesia : Manajemen Informatika Dan Komunikasi*, *4*(1), 255–264. https://doi.org/10.35870/jimik.v4i1.167

Sutanti, A., Komaruddin, M., Damayanti, P., & Studi Sistem Informasi Metro, P. U. (2020). Sutanti, A., MZ, M. K., Mustika, M., & Damayanti, P. (2020). Rancang Bangun Aplikasi Perpustakaan Keliling Menggunakan Pendekatan Terstruktur. Komputa: Jurnal Ilmiah Komputer dan Informatika, 9(1), 1-8. *Jurnal Ilmiah Komputer Dan Informatika (KOMPUTA)*, *9*(1).

Triantaphyllou, E. (2021). *Multi-Criteria Decision Making Methods*. 5–21. https://doi.org/10.1007/978-1-4757-3157-6_2

Walkowski, M., Krakowiak, M., Jaroszewski, M., Oko, J., & Sujecki, S. (2021). Automatic CVSS-based Vulnerability Prioritization and Response with Context Information. *2021 29th International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2021*, *February 2024*, 1–21. https://doi.org/10.23919/softcom52868.2021.9559094

Wicaksono, S. R. (2023). *TOPSIS - Teori dan Implementasi* (Issue January). https://doi.org/10.5281/zenodo.8035225

Wirth, R., & Hipp, J. (2021). *CRISP-DM: A Comprehensive Guide*. Data Science Press.

Wu, Z., Fang, C., & Lin, X. (2023). Integrating subjective and objective

weighting in decision analysis. *Applied Soft Computing*, *145*, 110751. https://doi.org/10.1016/j.asoc.2023.110751

Zavadskas, E., Turskis, Z., & Kersuliene, V. (2020). Multi-criteria decision-making: Achievements and perspectives. *Economic Research-Ekonomska Istrazivanja*, *33*(1), 865–887. https://doi.org/10.1080/1331677X.2020.1734852

Zulfa, N. S. L., Alvianti, V. A., & Versanika, D. V. (2025). Penerapan Metode TOPSIS dalam Sistem Informasi Pengaduan Keresahan dan Kejahatan Lingkungan Bagi Masyarakat Berbasis Web (Studi Kasus: Kecamatan Ujungberung)<!--a=1--><!--a=1-->. *Jurnal Penelitian Dan Pengembangan Teknologi Informasi Dan Komunikasi*, *14*(2), 106–125. https://doi.org/10.58761/jurtikstmikbandung.v14.i2.194