

DAFTAR PUSTAKA

- [1] W. R. Berghuijs, R. A. Woods, C. J. Hutton, and M. Sivapalan, “Dominant flood generating mechanisms across the United States,” *Geophys Res Lett*, vol. 43, no. 9, pp. 4382–4390, 2016, doi: <https://doi.org/10.1002/2016GL068070>.
- [2] A. Sajjad, J. Lu, X. Chen, C. Chisenga, and S. Mahmood, “THE RIVERINE FLOOD CATASTROPHE IN AUGUST 2010 IN SOUTH PUNJAB, PAKISTAN: POTENTIAL CAUSES, EXTENT AND DAMAGE ASSESSMENT,” *Appl Ecol Environ Res*, vol. 17, pp. 14121–14142, Mar. 2019, doi: 10.15666/aeer/1706_1412114142.
- [3] L. Bertilsson, K. Wiklund, I. de Moura Tebaldi, O. M. Rezende, A. P. Veról, and M. G. Miguez, “Urban flood resilience – A multi-criteria index to integrate flood resilience into urban planning,” *J Hydrol (Amst)*, vol. 573, pp. 970–982, 2019, doi: <https://doi.org/10.1016/j.jhydrol.2018.06.052>.
- [4] Z. Ling *et al.*, “Stream flow simulation and verification in ungauged zones by coupling hydrological and hydrodynamic models: A case study of the Poyang Lake ungauged zone,” *Hydrol Earth Syst Sci*, vol. 21, pp. 5847–5861, Mar. 2017, doi: 10.5194/hess-21-5847-2017.
- [5] Y. Dou, X. Xue, Z. Zhao, X. Luo, A. Ji, and T. Luo, “Multi-Index Evaluation for Flood Disaster from Sustainable Perspective: A Case Study of Xinjiang in China,” *Int J Environ Res Public Health*, vol. 15, no. 9, 2018, doi: 10.3390/ijerph15091983.
- [6] Y. Li, Z. Zhang, S. Gong, M. Liu, and Y. Zhao, “Risk assessment of rainstorm disasters under different return periods: A case study of Bohai Rim, China,” *Ocean Coast Manag*, vol. 187, p. 105107, 2020, doi: <https://doi.org/10.1016/j.ocecoaman.2020.105107>.
- [7] S. G. Meshram, E. Alvandi, C. Meshram, E. Kahya, and A. M. Fadhil Al-Quraishi, “Application of SAW and TOPSIS in Prioritizing Watersheds,”

Water Resources Management, vol. 34, no. 2, pp. 715–732, 2020, doi: 10.1007/s11269-019-02470-x.

- [8] S. Roy, A. Bose, and I. R. Chowdhury, “Flood risk assessment using geospatial data and multi-criteria decision approach: a study from historically active flood-prone region of Himalayan foothill, India,” *Arabian Journal of Geosciences*, vol. 14, no. 11, p. 999, 2021, doi: 10.1007/s12517-021-07324-8.
- [9] Y. Wang, Z. Li, Z. Tang, and G. Zeng, “A GIS-Based Spatial Multi-Criteria Approach for Flood Risk Assessment in the Dongting Lake Region, Hunan, Central China,” *Water Resources Management*, vol. 25, no. 13, pp. 3465–3484, 2011, doi: 10.1007/s11269-011-9866-2.
- [10] Q. Zou, J. Zhou, C. Zhou, L. Song, and J. Guo, “Comprehensive flood risk assessment based on set pair analysis-variable fuzzy sets model and fuzzy AHP,” *Stochastic Environmental Research and Risk Assessment*, vol. 27, no. 2, pp. 525–546, 2013, doi: 10.1007/s00477-012-0598-5.
- [11] K. Khosravi, H. R. Pourghasemi, K. Chapi, and M. Bahri, “Flash flood susceptibility analysis and its mapping using different bivariate models in Iran: a comparison between Shannon’s entropy, statistical index, and weighting factor models,” *Environ Monit Assess*, vol. 188, no. 12, p. 656, Dec. 2016, doi: 10.1007/s10661-016-5665-9.
- [12] A. Nandi, A. Mandal, M. Wilson, and D. Smith, “Flood hazard mapping in Jamaica using principal component analysis and logistic regression,” *Environ Earth Sci*, vol. 75, no. 6, p. 465, 2016, doi: 10.1007/s12665-016-5323-0.
- [13] S. Hu, X. Cheng, D. Zhou, and H. Zhang, “GIS-based flood risk assessment in suburban areas: a case study of the Fangshan District, Beijing,” *Natural Hazards*, vol. 87, no. 3, pp. 1525–1543, 2017, doi: 10.1007/s11069-017-2828-0.
- [14] M. M. de Brito and M. Evers, “Multi-criteria decision-making for flood risk management: a survey of the current state of the art,” *Natural Hazards and*

Earth System Sciences, vol. 16, no. 4, pp. 1019–1033, 2016, doi: 10.5194/nhess-16-1019-2016.

- [15] H.-M. Lyu, W.-H. Zhou, S.-L. Shen, and A.-N. Zhou, “Inundation risk assessment of metro system using AHP and TFN-AHP in Shenzhen,” *Sustain Cities Soc*, vol. 56, p. 102103, 2020, doi: <https://doi.org/10.1016/j.scs.2020.102103>.
- [16] T.-C. Wang and H.-D. Lee, “Developing a fuzzy TOPSIS approach based on subjective weights and objective weights,” *Expert Syst Appl*, vol. 36, no. 5, pp. 8980–8985, 2009, doi: <https://doi.org/10.1016/j.eswa.2008.11.035>.
- [17] M. Sahoo, S. Sahoo, A. Dhar, and B. Pradhan, “Effectiveness evaluation of objective and subjective weighting methods for aquifer vulnerability assessment in urban context,” *J Hydrol (Amst)*, vol. 541, pp. 1303–1315, Oct. 2016, doi: [10.1016/j.jhydrol.2016.08.035](https://doi.org/10.1016/j.jhydrol.2016.08.035).
- [18] B. Jongman, P. J. Ward, and J. C. J. H. Aerts, “Global exposure to river and coastal flooding: Long term trends and changes,” *Global Environmental Change*, vol. 22, no. 4, pp. 823–835, 2012, doi: <https://doi.org/10.1016/j.gloenvcha.2012.07.004>.
- [19] Y. Wang, Z. Fang, H. Hong, R. Costache, and X. Tang, “Flood susceptibility mapping by integrating frequency ratio and index of entropy with multilayer perceptron and classification and regression tree,” *J Environ Manage*, vol. 289, p. 112449, 2021, doi: <https://doi.org/10.1016/j.jenvman.2021.112449>.
- [20] M.-D. Su, C.-H. Lin, L.-F. Chang, J.-L. Kang, and M.-C. Lin, “A probabilistic approach to rainwater harvesting systems design and evaluation,” *Resour Conserv Recycl*, vol. 53, no. 7, pp. 393–399, 2009, doi: <https://doi.org/10.1016/j.resconrec.2009.03.005>.
- [21] J. Wu, X. Chen, and J. Lu, “Assessment of long and short-term flood risk using the multi-criteria analysis model with the AHP-Entropy method in

Poyang Lake basin,” *International Journal of Disaster Risk Reduction*, vol. 75, p. 102968, 2022, doi: <https://doi.org/10.1016/j.ijdrr.2022.102968>.

- [22] Ö. Ekmekcioğlu, K. Koc, and M. Özger, “District based flood risk assessment in Istanbul using fuzzy analytical hierarchy process,” *Stochastic Environmental Research and Risk Assessment*, vol. 35, no. 3, pp. 617–637, 2021, doi: 10.1007/s00477-020-01924-8.
- [23] B. Choubin, E. Moradi, M. Golshan, J. Adamowski, F. Sajedi-Hosseini, and A. Mosavi, “An ensemble prediction of flood susceptibility using multivariate discriminant analysis, classification and regression trees, and support vector machines,” *Science of The Total Environment*, vol. 651, pp. 2087–2096, Feb. 2019, doi: 10.1016/j.scitotenv.2018.10.064.
- [24] A. Ghosh, “Quantitative approach on erosion hazard, vulnerability and risk assessment: case study of Muriganga–Saptamukhi interfluve, Sundarban, India,” *Natural Hazards*, vol. 87, no. 3, pp. 1709–1729, Jul. 2017, doi: 10.1007/s11069-017-2844-0.
- [25] Y. Chen *et al.*, “Spatio-temporal distribution of the rainstorm in the east side of the Helan Mountain and the possible causes of its variability,” *Atmos Res*, vol. 252, p. 105469, Apr. 2021, doi: 10.1016/j.atmosres.2021.105469.
- [26] M. K. A. Kablan, K. Dongo, and M. Coulibaly, “Assessment of Social Vulnerability to Flood in Urban Côte d’Ivoire Using the MOVE Framework,” *Water (Basel)*, vol. 9, no. 4, p. 292, Apr. 2017, doi: 10.3390/w9040292.
- [27] A. Ghosh and S. Mukhopadhyay, “Vulnerability assessment through index modeling: a case study in Muriganga–Saptamukhi estuarine interfluve, Sundarban, India,” *Arabian Journal of Geosciences*, vol. 10, no. 18, p. 408, 2017, doi: 10.1007/s12517-017-3197-4.
- [28] T. L. Saaty, “How to make a decision: The analytic hierarchy process,” *Eur J Oper Res*, vol. 48, no. 1, pp. 9–26, Sep. 1990, doi: 10.1016/0377-2217(90)90057-I.

- [29] H. R. Pourghasemi, B. Pradhan, C. Gokceoglu, M. Mohammadi, and H. R. Moradi, “Application of weights-of-evidence and certainty factor models and their comparison in landslide susceptibility mapping at Haraz watershed, Iran,” *Arabian Journal of Geosciences*, vol. 6, no. 7, pp. 2351–2365, Jul. 2013, doi: 10.1007/s12517-012-0532-7.
- [30] H. Anton and C. Rorres, *Elementary linear algebra: applications version*. John Wiley & Sons, 2013.
- [31] L. Liu, J. Zhou, X. An, Y. Zhang, and L. Yang, “Using fuzzy theory and information entropy for water quality assessment in Three Gorges region, China,” *Expert Syst Appl*, vol. 37, no. 3, pp. 2517–2521, Mar. 2010, doi: 10.1016/j.eswa.2009.08.004.
- [32] X. Ding, X. Chong, Z. Bao, Y. Xue, and S. Zhang, “Fuzzy Comprehensive Assessment Method Based on the Entropy Weight Method and Its Application in the Water Environmental Safety Evaluation of the Heshangshan Drinking Water Source Area, Three Gorges Reservoir Area, China,” *Water (Basel)*, vol. 9, p. 329, Mar. 2017, doi: 10.3390/w9050329.
- [33] Y. Cui, P. Feng, J. Jin, and L. Liu, “Water Resources Carrying Capacity Evaluation and Diagnosis Based on Set Pair Analysis and Improved the Entropy Weight Method,” *Entropy*, vol. 20, p. 359, Mar. 2018, doi: 10.3390/e20050359.
- [34] “Entropy, Relative Entropy, and Mutual Information,” in *Elements of Information Theory*, 2005, pp. 13–55. doi: <https://doi.org/10.1002/047174882X.ch2>.
- [35] “Information Theory and Statistics,” in *Elements of Information Theory*, 2005, pp. 347–408. doi: <https://doi.org/10.1002/047174882X.ch11>.