

REFERENCES

- [1] D. Adytia, D. Saepudin, S. R. Pudjaprasetya, S. Husrin, and A. Sopaheluwakan, “A Deep Learning Approach for Wave Forecasting Based on a Spatially Correlated Wind Feature, with a Case Study in the Java Sea, Indonesia,” *Fluids*, vol. 7, no. 1, p. 39, Jan. 2022, doi: 10.3390/fluids7010039.
- [2] A. Toimil, I. J. Losada, R. J. Nicholls, R. A. Dalrymple, and M. J. F. Stive, “Addressing the challenges of climate change risks and adaptation in coastal areas: A review,” *Coastal Engineering*, vol. 156, p. 103611, Mar. 2020, doi: 10.1016/j.coastaleng.2019.103611.
- [3] M. J. Alizadeh, M. R. Kavianpour, B. Kamranzad, and A. Etemad-Shahidi, “A distributed wind downscaling technique for wave climate modeling under future scenarios,” *Ocean Model (Oxf)*, vol. 145, p. 101513, Jan. 2020, doi: 10.1016/j.ocemod.2019.101513.
- [4] P. A. Umesh and M. R. Behera, “Performance evaluation of input-dissipation parameterizations in WAVEWATCH III and comparison of wave hindcast with nested WAVEWATCH III-SWAN in the Indian Seas,” *Ocean Engineering*, vol. 202, p. 106959, Apr. 2020, doi: 10.1016/j.oceaneng.2020.106959.
- [5] J.-V. Björkqvist, O. Vähä-Piikkiö, V. Alari, A. Kuznetsova, and L. Tuomi, “WAM, SWAN and WAVEWATCH III in the Finnish archipelago – the effect of spectral performance on bulk wave parameters,” *Journal of Operational Oceanography*, vol. 13, no. 1, pp. 55–70, Jan. 2020, doi: 10.1080/1755876X.2019.1633236.
- [6] F. P. Martinez-García, A. Contreras-de-Villar, and J. J. Muñoz-Perez, “Review of Wind Models at a Local Scale: Advantages and Disadvantages,” *J Mar Sci Eng*, vol. 9, no. 3, p. 318, Mar. 2021, doi: 10.3390/jmse9030318.
- [7] S. Kim, T. H. A. Tom, M. Takeda, and H. Mase, “A framework for transformation to nearshore wave from global wave data using machine learning techniques: Validation at the Port of Hitachinaka, Japan,” *Ocean Engineering*, vol. 221, p. 108516, Feb. 2021, doi: 10.1016/j.oceaneng.2020.108516.
- [8] Z. Wei, “Forecasting wind waves in the US Atlantic Coast using an artificial neural network model: Towards an AI-based storm forecast system,” *Ocean Engineering*, vol. 237, p. 109646, Oct. 2021, doi: 10.1016/j.oceaneng.2021.109646.
- [9] D. Adytia *et al.*, “Modelling of Deep Learning-Based Downscaling for Wave Forecasting in Coastal Area,” *Water (Basel)*, vol. 15, no. 1, p. 204, Jan. 2023, doi: 10.3390/w15010204.
- [10] M. R. Atiko and D. Adytia, “Machine Learning-Based Wave Downscaling Using Transformer Model, Case Study in Jakarta Bay,” in *2023 International Conference on Data Science and Its Applications (ICoDSA)*, IEEE, Aug. 2023, pp. 339–343. doi: 10.1109/ICoDSA58501.2023.10276877.
- [11] R. Zhang, F. Sun, Z. Song, X. Wang, Y. Du, and S. Dong, “Short-Term Traffic Flow Forecasting Model Based on GA-TCN,” *J Adv Transp*, vol. 2021, pp. 1–13, Dec. 2021, doi: 10.1155/2021/1338607.
- [12] P. Hewage *et al.*, “Temporal convolutional neural (TCN) network for an effective weather forecasting using time-series data from the local weather station,” *Soft comput*, vol. 24, no. 21, pp. 16453–16482, Nov. 2020, doi: 10.1007/s00500-020-04954-0.
- [13] H. Hersbach *et al.*, “The ERA5 global reanalysis,” *Quarterly Journal of the Royal Meteorological Society*, vol. 146, no. 730, pp. 1999–2049, Jul. 2020, doi: 10.1002/qj.3803.
- [14] N. Guillou, G. Lavidas, and G. Chapalain, “Wave Energy Resource Assessment for Exploitation—A Review,” *J Mar Sci Eng*, vol. 8, no. 9, p. 705, Sep. 2020, doi: 10.3390/jmse8090705.
- [15] Z. Yang, W. Shao, Y. Ding, J. Shi, and Q. Ji, “Wave Simulation by the SWAN Model and FVCOM Considering the Sea-Water Level around the Zhoushan Islands,” *J Mar Sci Eng*, vol. 8, no. 10, p. 783, Oct. 2020, doi: 10.3390/jmse8100783.
- [16] H. Tian, L. Yang, and B. Ju, “Spatial correlation and temporal attention-based LSTM for remaining useful life prediction of turbofan engine,” *Measurement*, vol. 214, p. 112816, Jun. 2023, doi: 10.1016/j.measurement.2023.112816.
- [17] T. Boulmaiz, M. Guermoui, and H. Boutaghane, “Impact of training data size on the LSTM performances for rainfall-runoff modeling,” *Model Earth Syst Environ*, vol. 6, no. 4, pp. 2153–2164, Dec. 2020, doi: 10.1007/s40808-020-00830-w.
- [18] S. Bai, J. Z. Kolter, and V. Koltun, “An Empirical Evaluation of Generic Convolutional and Recurrent Networks for Sequence Modeling,” Mar. 2018.
- [19] M. Nauta, D. Bucur, and C. Seifert, “Causal Discovery with Attention-Based Convolutional Neural Networks,” *Mach Learn Knowl Extr*, vol. 1, no. 1, pp. 312–340, Jan. 2019, doi: 10.3390/make1010019.
- [20] B. Lim and S. Zohren, “Time-series forecasting with deep learning: a survey,” *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, vol. 379, no. 2194, p. 20200209, Apr. 2021, doi: 10.1098/rsta.2020.0209.
- [21] S. Shamshirband, A. Mosavi, T. Rabczuk, N. Nabipour, and K. Chau, “Prediction of significant wave height; comparison between nested grid numerical model, and machine learning models of artificial

neural networks, extreme learning and support vector machines," *Engineering Applications of Computational Fluid Mechanics*, vol. 14, no. 1, pp. 805–817, Jan. 2020, doi: 10.1080/19942060.2020.1773932.