

BIBLIOGRAPHY

- [1] S. Aisyah, A. A. Simaremare, D. Adytia, I. A. Aditya, and A. Alamsyah. Exploratory weather data analysis for electricity load forecasting using svm and grnn, case study in bali, indonesia. *Energies*, 15(10), 2022. doi: 10.3390/en15103566.
- [2] I. Atik. A new cnn-based method for short-term forecasting of electrical energy consumption in the covid-19 period: The case of turkey. *IEEE Access*, 10:22586–22598, 2022. doi: 10.1109/ACCESS.2022.3154044.
- [3] A. Azeem, I. Ismail, S. M. Jameel, and V. R. Harindran. Electrical load forecasting models for different generation modalities: A review. *IEEE Access*, 9:142239–142263, 2021. doi: 10.1109/ACCESS.2021.3120731.
- [4] F. Bayram, P. Aupke, B. S. Ahmed, A. Kassler, A. Theocharis, and J. Forsman. Da-lstm: A dynamic drift-adaptive learning framework for interval load forecasting with lstm networks. *Engineering Applications of Artificial Intelligence*, 123, Part C: 106480, 2023. ISSN 0952-1976. doi: 10.1016/j.engappai.2023.106480. URL <https://www.sciencedirect.com/science/article/pii/S0952197623006644>.
- [5] J. Bedi and D. Toshniwal. Empirical mode decomposition based deep learning for electricity demand forecasting. *IEEE Access*, 6:49144–49156, 2018. doi: 10.1109/ACCESS.2018.2867681.
- [6] T. G. Cassarino, E. Sharp, and M. Barrett. The impact of social and weather drivers on the historical electricity demand in europe. *Applied Energy*, 229:176–185, 2018. doi: 10.1016/j.apenergy.2018.07.108.
- [7] J. Du, Y. Cheng, Q. Zhou, J. Zhang, X. Zhang, and G. Li. Power load forecasting using bilstm-attention. *IOP Conf Ser Earth Environ Sci*, 440(3):32115, Feb. 2020. doi: 10.1088/1755-1315/440/3/032115.
- [8] ECMWF. ERA5: Fifth generation of ECMWF atmospheric reanalyses of the global climate. <https://www.ecmwf.int/en/forecasts/dataset/ecmwf-reanalysis-v5>, 2017. Accessed: 2023-04-09.
- [9] A. E. Filali, A. Jadli, E. H. B. Lahmer, and S. E. Filali. A novel LSTM-GRU-based hybrid approach for electrical products demand forecasting. *Int. J. Intell. Eng. Syst.*, 15(3):601–613, 2022. doi: 10.22266/ijies2022.0630.51.
- [10] T. Gao, D. Niu, Z. Ji, and L. Sun. Mid-term electricity demand forecasting using improved variational mode decomposition and extreme learning machine optimized by sparrow search algorithm. *Energy*, 261:125328, 2022. doi: 10.1016/j.energy.2022.125328.

- [11] H. Ge, G. Chen, H. Yu, H. Chen, and F. An. Theoretical analysis of empirical mode decomposition. *Symmetry (Basel)*, 10(11), 2018. doi: 10.3390/sym10110623.
 - [12] N. E. Huang and Z. Wu. A review on hilbert-huang transform: Method and its applications to geophysical studies. *Reviews of Geophysics*, 46(2), 2008. doi: 10.1029/2007RG000228.
 - [13] N. E. Huang et al. The empirical mode decomposition and the hilbert spectrum for nonlinear and non-stationary time series analysis. *Proceedings of the Royal Society of London. Series A: Mathematical, Physical and Engineering Sciences*, 454:903–995, 1998.
 - [14] A. I. and N. S. M. U. Zaman. Short term load forecasting based on internet of things (iot). Accessed: Jun. 20, 2023, 2018. [Online]. Available: <http://dspace.bracu.ac.bd/xmlui/handle/10361/10170>.
 - [15] M. Imani. Electrical load-temperature cnn for residential load forecasting. *Energy*, 227:120480, 2021. doi: 10.1016/j.energy.2021.120480.
 - [16] R. Jaros, R. Martinek, and R. Kahankova. Non-adaptive methods for fetal ecg signal processing: A review and appraisal. *Sensors*, 18(11), 2018. doi: 10.3390/s18113648.
 - [17] N. Javaid, A. Naz, R. Khalid, A. Almogren, M. Shafiq, and A. Khalid. Els-net: A new approach to forecast decomposed intrinsic mode functions of electricity load. *IEEE Access*, 8:198935–198949, 2020. doi: 10.1109/ACCESS.2020.3034113.
 - [18] W. Khan, W. Somers, S. Walker, K. de Bont, J. V. der Velden, and W. Zeiler. Comparison of electric vehicle load forecasting across different spatial levels with incorporated uncertainty estimation. *Energy*, 283:129213, 2023. ISSN 0360-5442. doi: 10.1016/j.energy.2023.129213. URL <https://www.sciencedirect.com/science/article/pii/S0360544223026075>.
 - [19] C. Kim, J. Byun, J. Go, and Y. Heo. Structured probabilistic models for capturing household and temporal variations in the internal electricity load. *Energy and Buildings*, 279:112685, 2023. doi: 10.1016/j.enbuild.2022.112685.
 - [20] S. Kiranyaz, O. Avci, O. Abdeljaber, T. Ince, M. Gabbouj, and D. J. Inman. 1d convolutional neural networks and applications: A survey. *Mechanical Systems and Signal Processing*, 151:107398, 2021. ISSN 0888-3270. doi: 10.1016/j.ymssp.2020.107398. URL <https://www.sciencedirect.com/science/article/pii/S0888327020307846>.
 - [21] J. Kunhoth, S. Al Maadeed, M. Saleh, and Y. Akbari. Cnn feature and classifier fusion on novel transformed image dataset for dysgraphia diagnosis in children. *Expert Syst Appl*, 231:120740, 2023. doi: 10.1016/j.eswa.2023.120740.
-

- [22] Y. Li, X. Guo, Y. Gao, B. Yuan, and S. Wang. Short-term power load probabilistic interval multi-step forecasting based on forecastnet. *Energy Reports*, 8:133–140, 2022. doi: 10.1016/j.egyr.2022.02.159.
 - [23] M. Liu, X. Sun, Q. Wang, and S. Deng. Short-term load forecasting using emd with feature selection and tcn-based deep learning model. *Energies*, 15(19):7170, 2022. doi: 10.3390/en15197170. URL <https://doi.org/10.3390/en15197170>.
 - [24] L. Ma, J. Zhou, and Y. Wang. Emd-cnn model based condition monitoring and fault warning for power overhead optical cable communication. *J Phys Conf Ser*, 1325: 12231, Jun. 2019. doi: 10.1088/1742-6596/1325/1/012231.
 - [25] E. A. Madrid and N. Antonio. Short-term electricity load forecasting with machine learning. *Information*, 12(2), 2021. doi: 10.3390/info12020050.
 - [26] H. Malik, N. Fatema, and A. Iqbal. Chapter 9 - intelligent data analytics for time-series load forecasting using fuzzy reinforcement learning (frl). In H. Malik, N. Fatema, and A. Iqbal, editors, *Intelligent Data-Analytics for Condition Monitoring*, pages 193–213. Academic Press, 2021. doi: 10.1016/B978-0-323-85510-5.00009-0.
 - [27] N. Mbuli, M. Mathonsi, M. Seitshiro, and J.-H. C. Pretorius. Decomposition forecasting methods: A review of applications in power systems. *Energy Reports*, 6:298–306, 2020. doi: 10.1016/j.egyr.2020.11.238.
 - [28] Z. Meng, Y. Xie, and J. Sun. Short-term load forecasting using neural attention model based on emd. *Electrical Engineering*, 104(3):1857–1866, 2022. doi: 10.1007/s00202-021-01420-4.
 - [29] J. I. Mikayilov, A. Darandary, R. Alyamani, F. J. Hasanov, and H. Alatawi. Regional heterogeneous drivers of electricity demand in saudi arabia: Modeling regional residential electricity demand. *Energy Policy*, 146:111796, 2020. doi: 10.1016/j.enpol.2020.111796.
 - [30] A. Moradzadeh, M. Mohammadpourfard, C. Konstantinou, I. Genc, T. Kim, and B. Mohammadi-Ivatloo. Electric load forecasting under false data injection attacks using deep learning. *Energy Reports*, 8:9933–9945, 2022. doi: 10.1016/j.egyr.2022.08.004.
 - [31] J. Ren, Z. Yu, G. Gao, G. Yu, and J. Yu. A cnn-lstm-lightgbm based short-term wind power prediction method based on attention mechanism. *Energy Reports*, 8:437–443, 2022. doi: 10.1016/j.egyr.2022.02.206.
 - [32] O. Rubasinghe et al. Highly accurate peak and valley prediction short-term net load forecasting approach based on decomposition for power systems with high pv penetration. *Applied Energy*, 333:120641, 2023. doi: 10.1016/j.apenergy.2023.120641.
-

- [33] A. N. Sayed, Y. Himeur, and F. Bensaali. From time-series to 2d images for building occupancy prediction using deep transfer learning. *Engineering Applications of Artificial Intelligence*, 119:105786, 2023. ISSN 0952-1976. doi: 10.1016/j.engappai.2022.105786. URL <https://www.sciencedirect.com/science/article/pii/S095219762200776X>.
- [34] K. Shahare, A. Mitra, D. Naware, R. Keshri, and H. M. Suryawanshi. Performance analysis and comparison of various techniques for short-term load forecasting. *Energy Reports*, 9:799–808, 2023. doi: 10.1016/j.egyr.2022.11.086.
- [35] M. Stajuda, D. García Cava, and G. Liśkiewicz. Aerodynamic instabilities detection via empirical mode decomposition in centrifugal compressors. *Measurement*, 199: 111496, 2022. doi: 10.1016/j.measurement.2022.111496.
- [36] G. Sun, R. Zhang, Z. Liu, L. Wu, Q. Yu, and X. Tan. Emd-based noise reduction study of steel cored conveyor belt containing slag signal. *Alexandria Engineering Journal*, 98:56–67, 2024. ISSN 1110-0168. doi: 10.1016/j.aej.2024.04.045. URL <https://www.sciencedirect.com/science/article/pii/S1110016824004319>.
- [37] G. Tziolis et al. Short-term electric net load forecasting for solar-integrated distribution systems based on bayesian neural networks and statistical post-processing. *Energy*, 271:127018, 2023. doi: 10.1016/j.energy.2023.127018.
- [38] J. Verma, L. Sandys, A. Matthews, and S. Goel. Readiness of artificial intelligence technology for managing energy demands from renewable sources. *Engineering Applications of Artificial Intelligence*, 135:108831, 2024. ISSN 0952-1976. doi: 10.1016/j.engappai.2024.108831. URL <https://www.sciencedirect.com/science/article/pii/S0952197624009898>.
- [39] F. Widmer, S. Nowak, B. Bowler, P. Huber, and A. Papaemmanouil. Data-driven comparison of federated learning and model personalization for electric load forecasting. *Energy and AI*, 14:100253, 2023. doi: 10.1016/j.egyai.2023.100253.
- [40] K. Wu, X. Peng, Z. Chen, H. Su, H. Quan, and H. Liu. A novel short-term household load forecasting method combined bilstm with trend feature extraction. *Energy Reports*, 9:1013–1022, 2023. doi: 10.1016/j.egyr.2023.05.041.
- [41] K. Wu et al. An attention-based cnn-lstm-bilstm model for short-term electric load forecasting in integrated energy system. *International Transactions on Electrical Energy Systems*, 31(1):e12637, 2021. doi: 10.1002/2050-7038.12637.
- [42] G. Zhang, X. Bai, and Y. Wang. Short-time multi-energy load forecasting method based on cnn-seq2seq model with attention mechanism. *Machine Learning with Applications*, 5:100064, 2021. doi: 10.1016/j.mlwa.2021.100064.

- [43] J. Zhang, Y.-M. Wei, D. Li, Z. Tan, and J. Zhou. Short term electricity load forecasting using a hybrid model. *Energy*, 158:774–781, 2018. doi: 10.1016/j.energy.2018.06.012.
- [44] Q. Zhang, J. Chen, G. Xiao, S. He, and K. Deng. Transformgraph: A novel short-term electricity net load forecasting model. *Energy Reports*, 9:2705–2717, 2023. doi: 10.1016/j.egyr.2023.01.050.
- [45] Y. Zhao, Y. Huang, Z. Wang, and X. Liu. Carbon futures price forecasting based on feature selection. *Engineering Applications of Artificial Intelligence*, 135:108646, 2024. ISSN 0952-1976. doi: 10.1016/j.engappai.2024.108646. URL <https://www.sciencedirect.com/science/article/pii/S0952197624008042>.
- [46] Y. Zhao et al. Multi-step ahead forecasting for electric power load using an ensemble model. *Expert Systems with Applications*, 211:118649, 2023. doi: 10.1016/j.eswa.2022.118649.
- [47] R. Ziani, A. Hammami, F. Chaari, A. Felkaoui, and M. Haddar. Gear fault diagnosis under non-stationary operating mode based on emd, tkeo, and shock detector. *Comptes Rendus Mécanique*, 347(9):663–675, 2019. doi: 10.1016/j.crme.2019.08.003.