

**Machine learning and deep learning techniques for residential load forecasting : a comparative analysis**

**Shabbir, Noman; Kütt, Lauri; Raja, Hadi Ashraf; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCon): conference proceedings 2021 / p. 1-5 <https://doi.org/10.1109/RTUCon53541.2021.9711741>

**Multi-step ahead short-term residential DC load forecasting : A comparative study of NGBoost-based algorithms**

**Shabbir, Noman; Husev, Oleksandr; Hokmabad, Hossein Nouroollahi; Daniel, Kamran; Jawad, Muhammad; Martins, Joao** 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 6 p <https://doi.org/10.1109/ICDCM63994.2025.11144710>

**Residential DC load forecasting using long short-term memory network (LSTM)**

**Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr; Jalakas, Tanel; Martins, Joao** 2023 IEEE 11th International Conference on Smart Energy Grid Engineering (SEGE) 2023 / p. 131-136 <https://doi.org/10.1109/SEGE59172.2023.10274596>

**Short-term residential DC load forecasting using extreme gradient boost (XgBoost) algorithm**

**Shabbir, Noman; Husev, Oleksandr; Daniel, Kamran; Jawad, Muhammad; Rosin, Argo; Martins, Joao** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604392>

**XgBoost based short-term electrical load forecasting considering trends & periodicity in historical data**

**Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Jawad, Muhammad; Kilter, Jako; Martins, Joao** 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 6 p <https://doi.org/10.1109/ETFG55873.2023.10407926>