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Difei Miyao was born in Suzhou, China, on February 8, 1991, and moved to Japan during his childhood. He received his B.Eng. degree from Hokkaido University and his M.Eng. degree from the University of Tsukuba, both in engineering, where he specialized in nanotechnology research. He subsequently worked as a Junior Researcher at the National Institute for Materials Science (NIMS), before joining NTT DOCOMO, INC. in 2017, where he is presently with the X-Tech Development Department. His current research interests span a broad range of topics related to smart energy systems, including electricity demand forecasting, real-time population data integration, decarbonization technology, and peak power prediction for smart grid applications. He has represented NTT DOCOMO at the GSMA ESG round-table meetings, contributing to industry-wide discussions on environmental and social governance in the telecommunications sector. In 2024, he presented a paper at the International Conference on Renewable Energy Research and Applications (ICRERA) held in Nagasaki, Japan, in which he compared the forecasting accuracy of multiple simple models for electricity demand prediction. Through this ongoing work, he aims to contribute to the development of more efficient and sustainable energy infrastructure.