An Innovative Hourly Water Demand Forecasting Preprocessing Framework with Local Outlier Correction and Adaptive Decomposition Techniques

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Figure S1. Scatter and density contour map of (a) the observed water demand; the results of local outlier correction for (b) contamination=0.03; (c) contamination=0.04; (d) contamination=0.05; (e) contamination=0.06; (f) contamination=0.07. Blue scatters represent the hourly water demand data in different hours. Right color bar shows the degree of density contour map for water demand data. Red lines near the y-axis are the projections of water demand data.

Figure S2. Learning curve of different window sizes for GRU model.

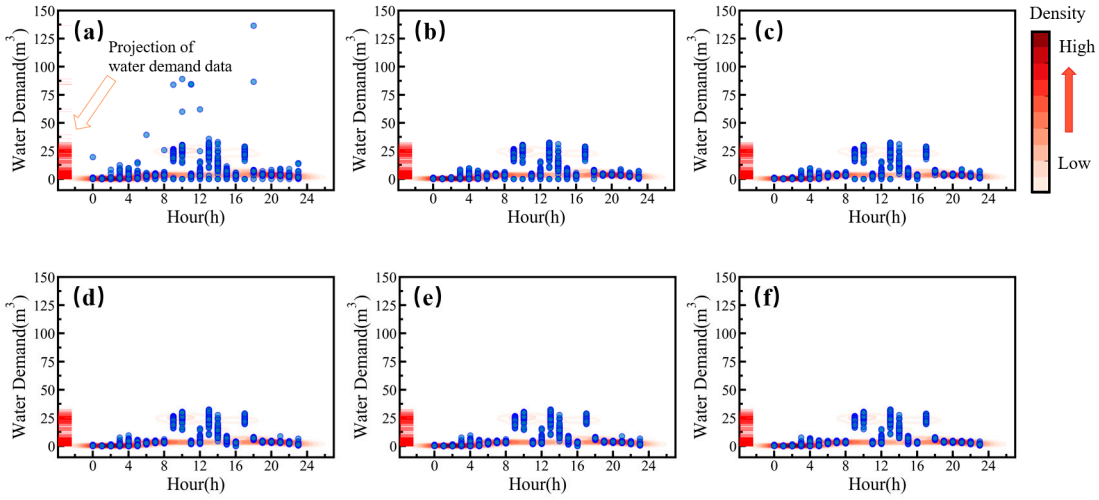

Figure S1.

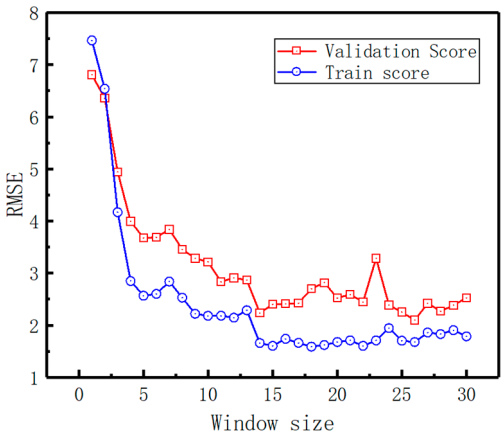
Validation Score
Train score
RMSE
Window size
8
7
6
5
4
3
2
1
0
5
10
15
20
25
30

Figure S2.