



Supplementary materials for

Dawen XIA, Jian GENG, Ruixi HUANG, Bingqi SHEN, Yang HU, Yantao LI, Huaqing LI, 2023. A distributed EEMDN-SABiGRU model on Spark for passenger hotspot prediction. *Front Inform Technol Electron Eng*, 24(9):1316-1331.

<https://doi.org/10.1631/FITEE.2200621>

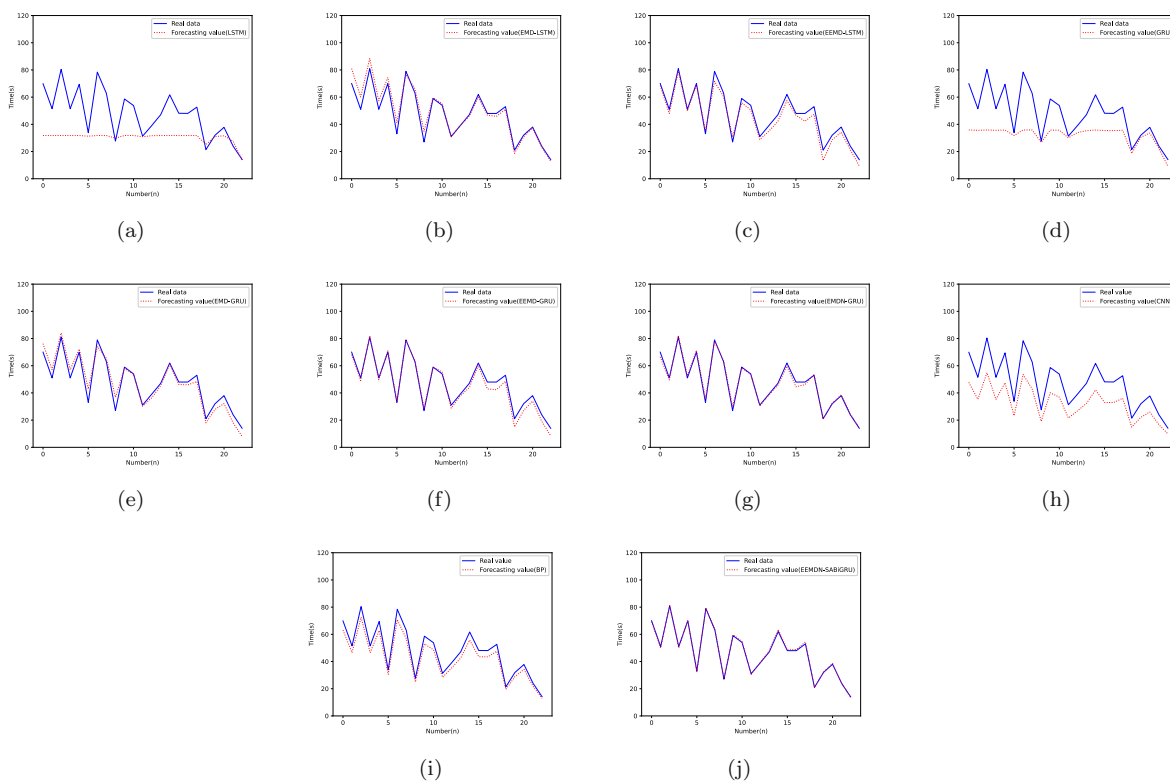


Fig. S1 Comparisons of models using the 1-day dataset: (a) LSTM; (b) EMD-LSTM; (c) EEMD-LSTM; (d) GRU; (e) EMD-GRU; (f) EEMD-GRU; (g) EEMDN-GRU; (h) CNN; (i) BP; (j) EEMDN-SABiGRU

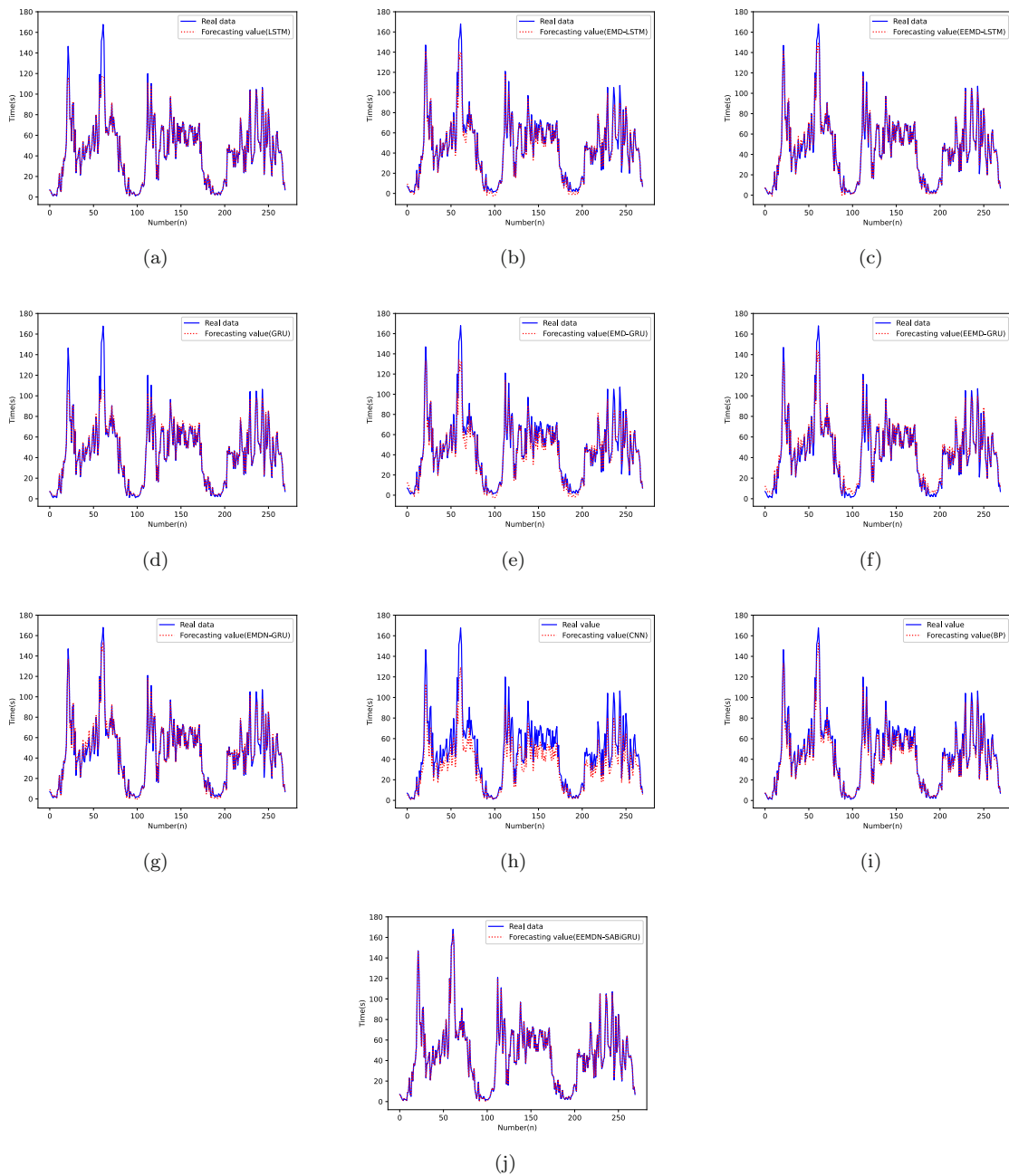


Fig. S2 Comparisons of models using the 10-day dataset: (a) LSTM; (b) EMD-LSTM; (c) EEMD-LSTM; (d) GRU; (e) EMD-GRU; (f) EEMD-GRU; (g) EMDN-GRU; (h) CNN; (i) BP; (j) EEMDN-SABiGRU

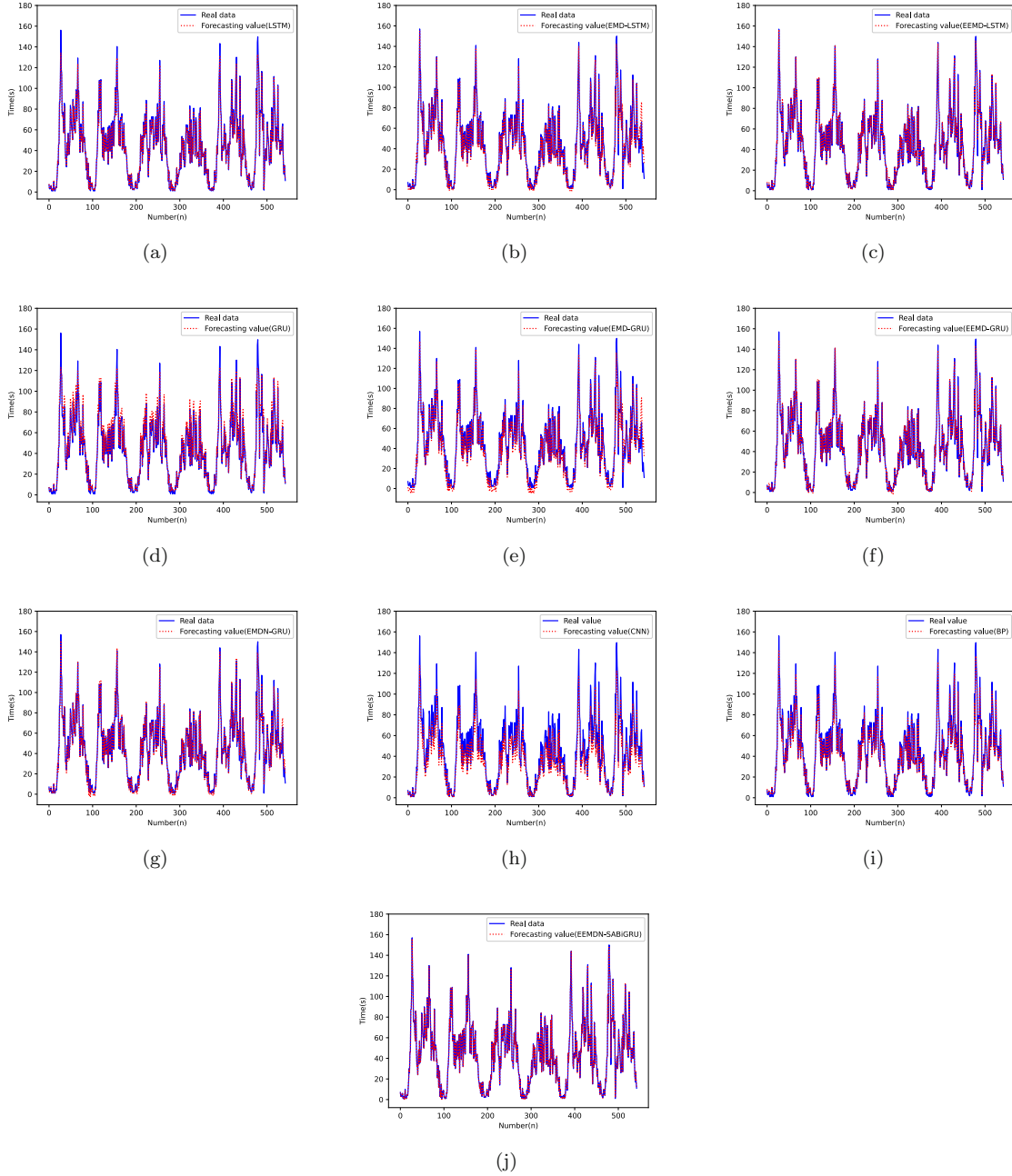


Fig. S3 Comparisons of models using the 20-day dataset: (a) LSTM; (b) EMD-LSTM; (c) EEMD-LSTM; (d) GRU; (e) EMD-GRU; (f) EEMD-GRU; (g) EMDN-GRU; (h) CNN; (i) BP; (j) EEMDN-SABiGRU

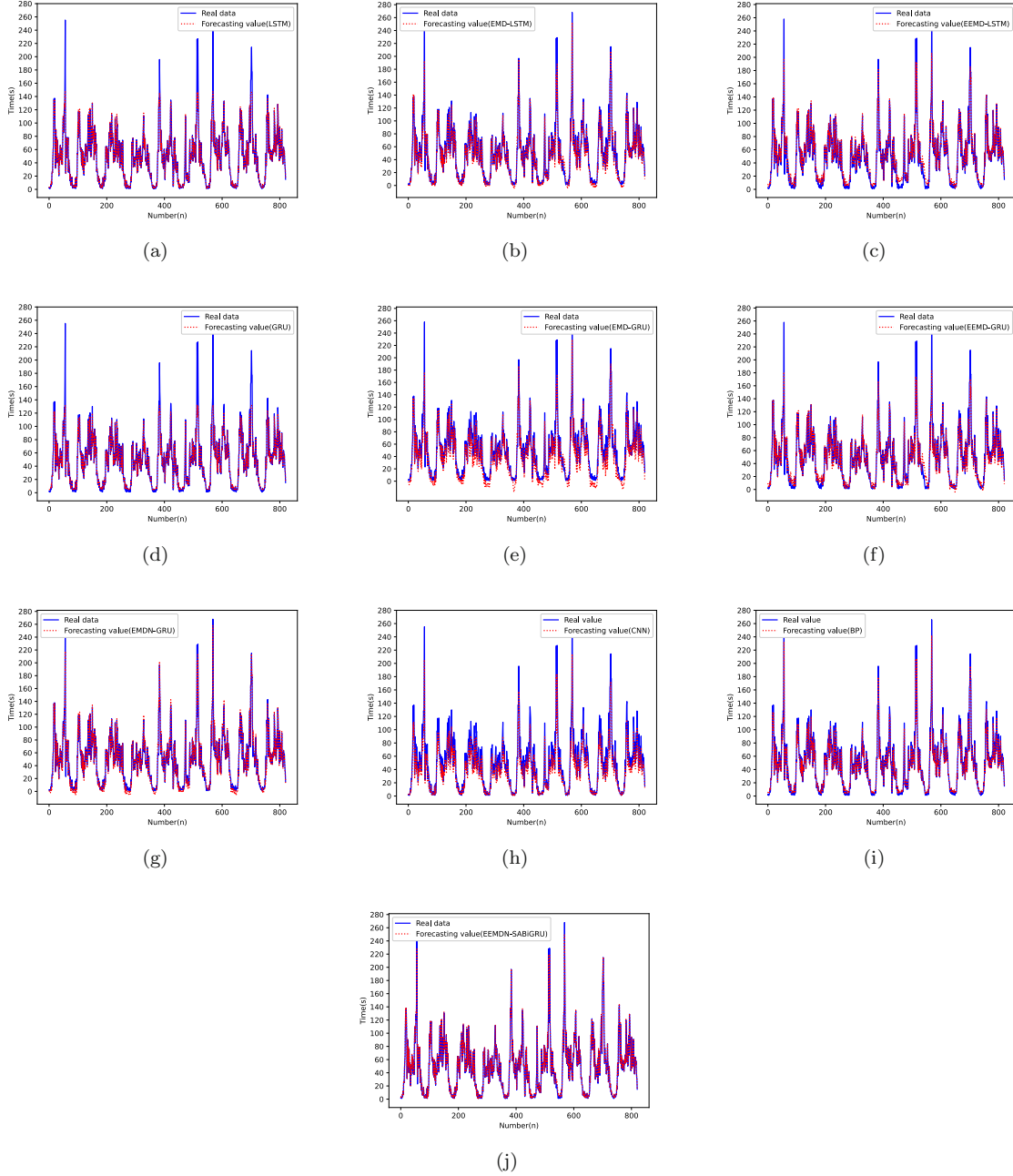


Fig. S4 Comparisons of models using the 30-day dataset: (a) LSTM; (b) EMD-LSTM; (c) EEMD-LSTM; (d) GRU; (e) EMD-GRU; (f) EEMD-GRU; (g) EMDN-GRU; (h) CNN; (i) BP; (j) EEMDN-SABiGRU