LIST OF NOTATIONS

Symbols	Definition
R_i	Result of the convolution operation at position i
w_j	Filter coefficients or kernel weights
z_{i+j}	Values from the input sequence at position $i + j$
m_i	Maximum value in the pooling region R_i
c_t	Output from the attention layer
h_j	Input values or features
α_{tj}	Attention weights assigned to each feature
m(t)	Average envelope of the signal
emax(t)	Upper envelope of the signal at time t
emin(t)	Lower envelope of the signal at time t
h(t)	First Intrinsic Mode Function (IMF) candidate
$\mathrm{IMF}_1(t)$	First Intrinsic Mode Function
r(t)	Residual signal after subtracting $\mathrm{IMF}_1(t)$ from the original signal
x(t)	Original signal
$IMF_i(t)$	<i>i</i> -th Intrinsic Mode Function
$r_k(t)$	Residual term after extracting k IMFs
cov(A, B)	Covariance between actual values A and predicted values B
σ_A	Standard deviation of A
σ_B	Standard deviation of B
CC	Correlation coefficient, quantifying the strength and direction of the
	linear relationship between A and B
b_i	Actual load value
\hat{b}_i	Predicted load value
RMSE	Root Mean Squared Error, measuring the magnitude of errors be-
	tween actual and predicted values
MAPE	Mean Absolute Percentage Error, indicating prediction accuracy in
	percentage terms
n	Number of observations