

## 说明书附图

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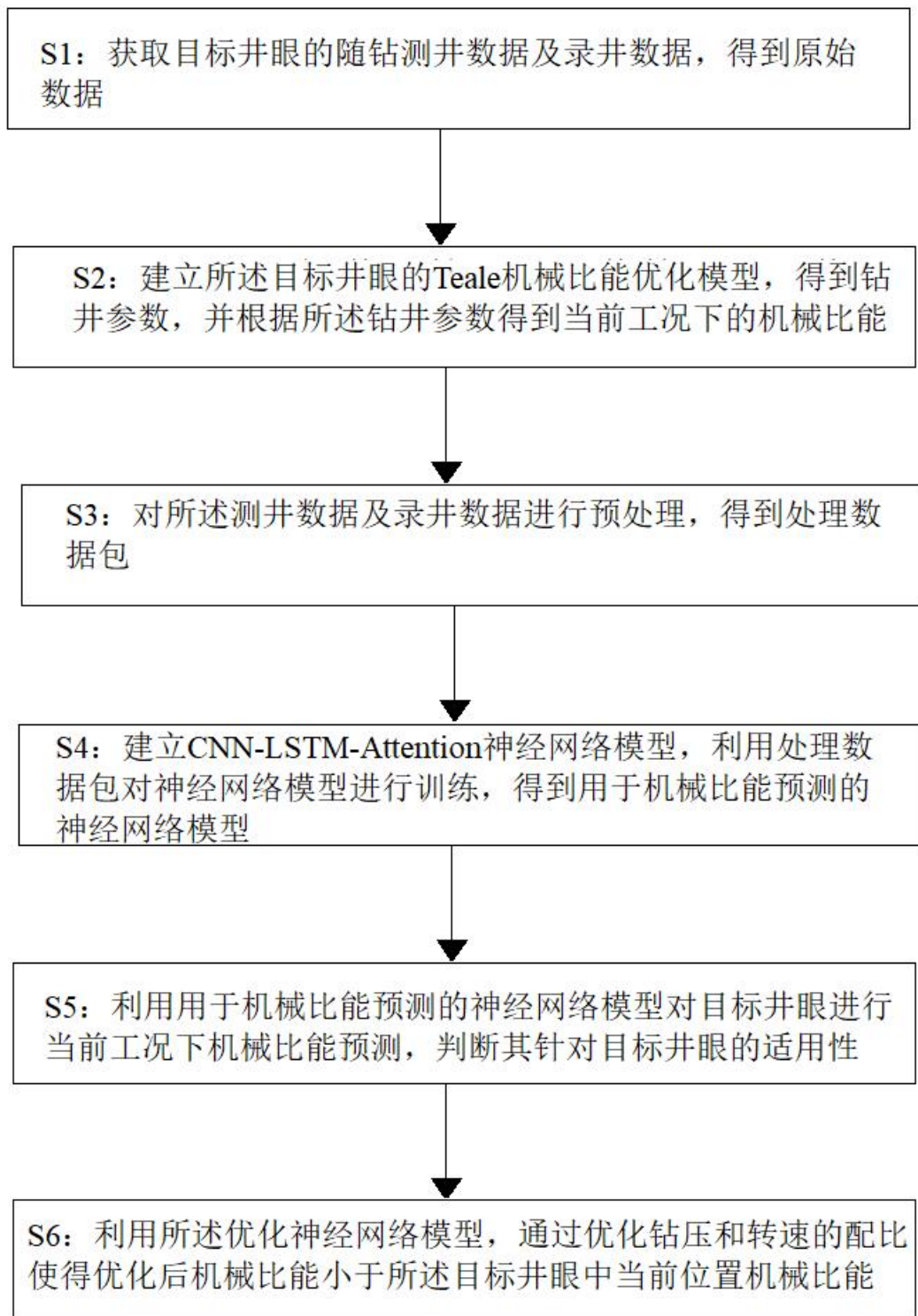


图 1

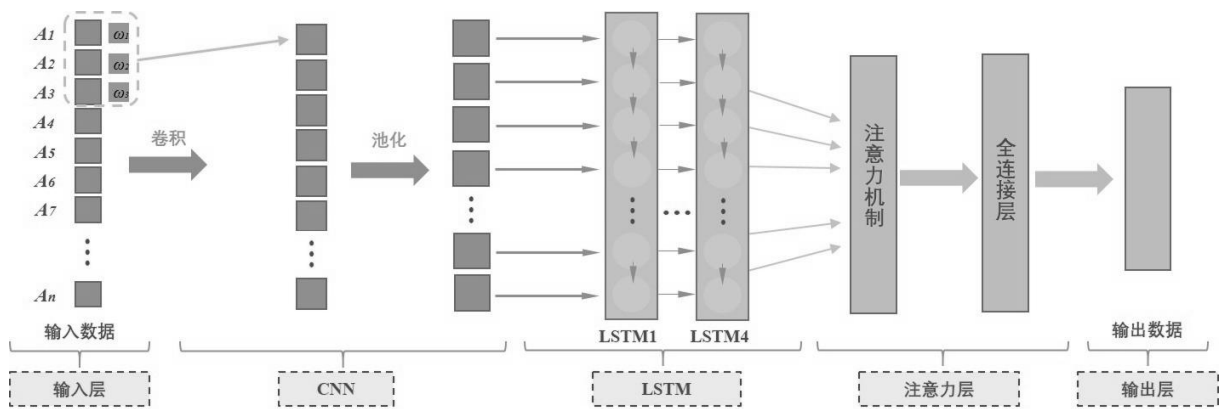


图 2

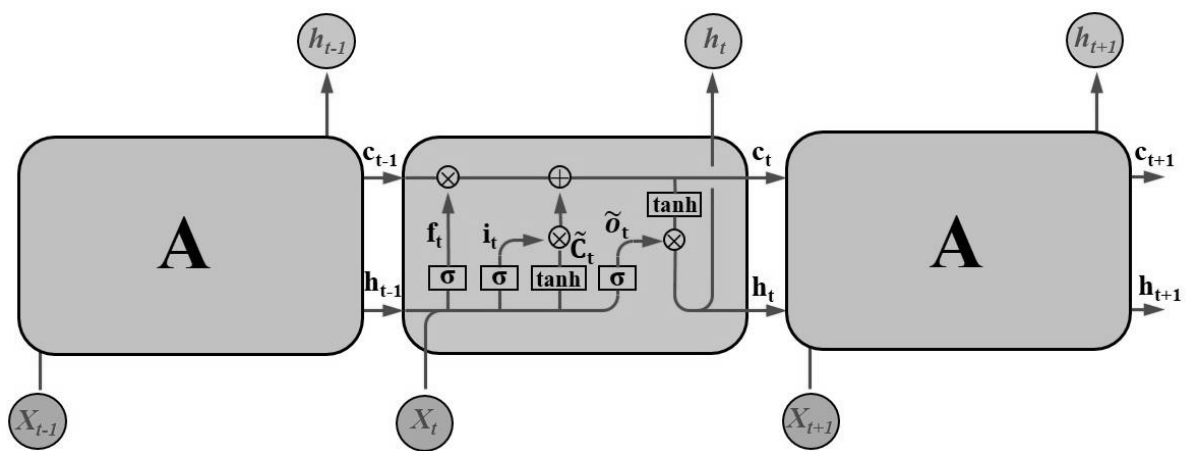


图 3 (a)

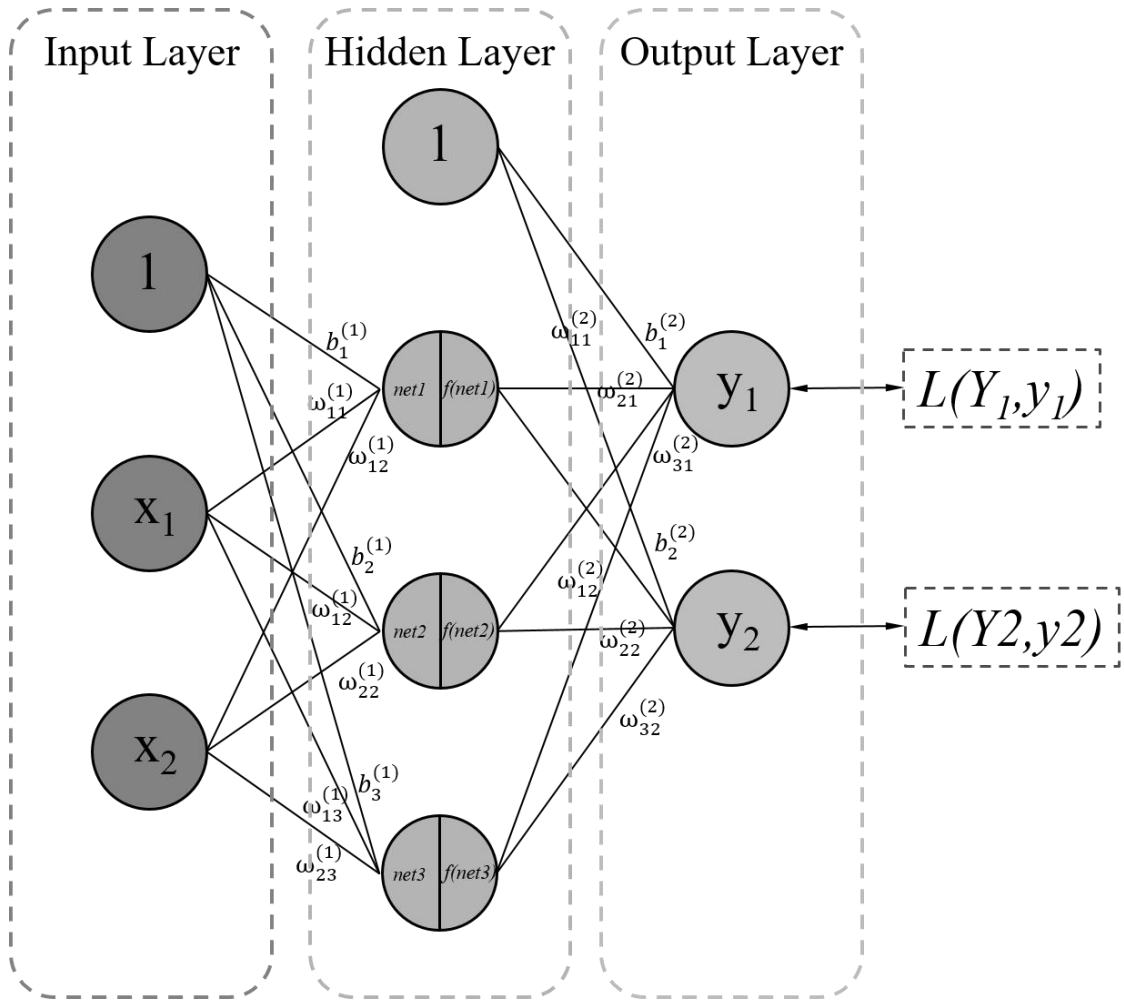


图 3 (b)

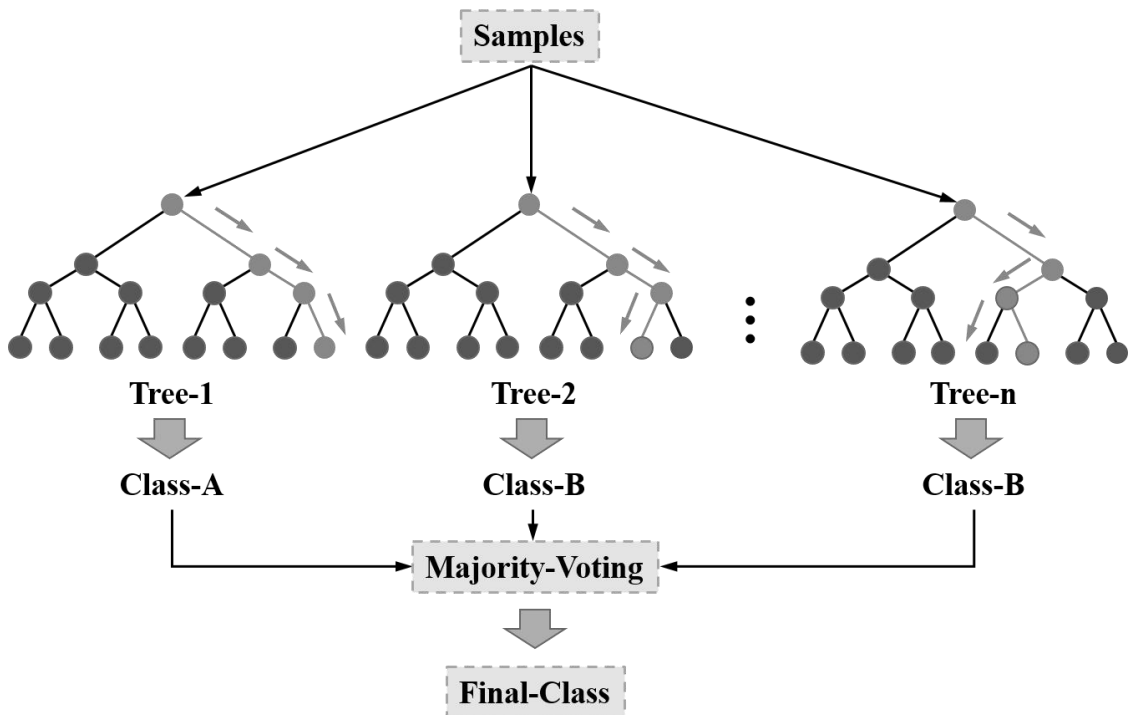


图 3 (c)

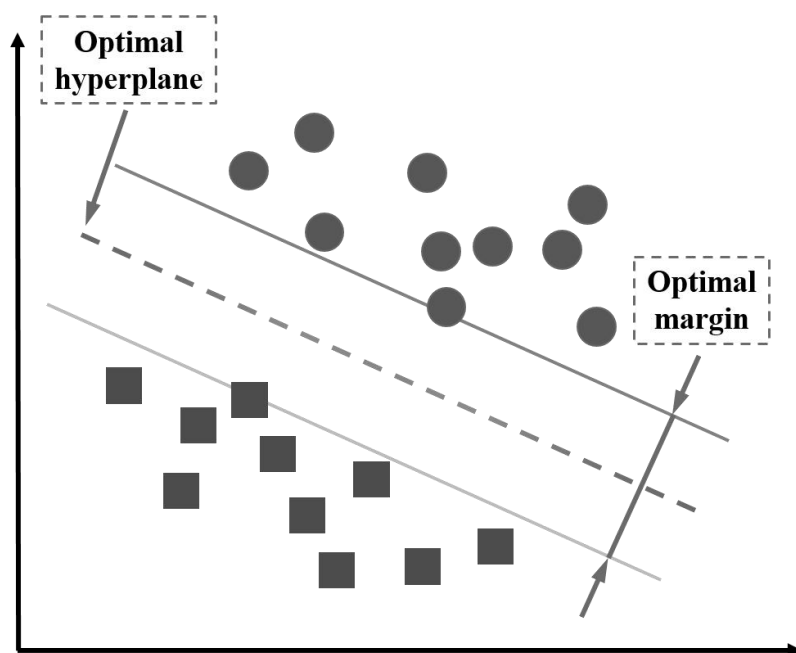


图 3 (d)

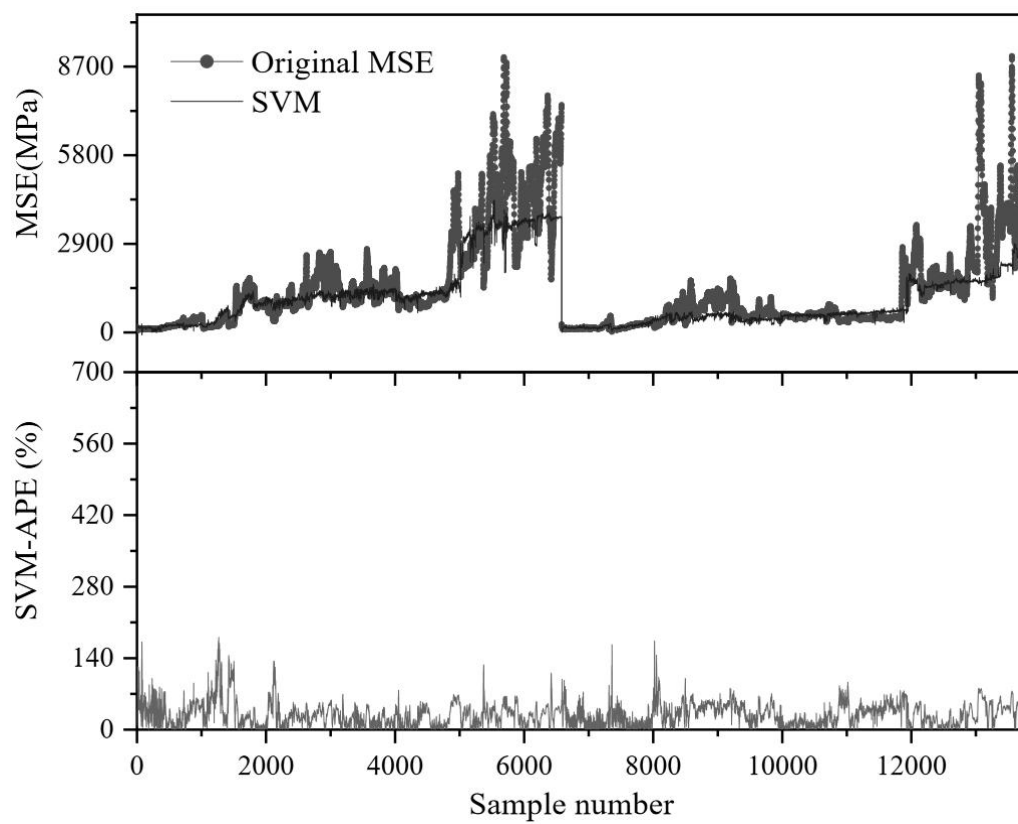


图 4(a)

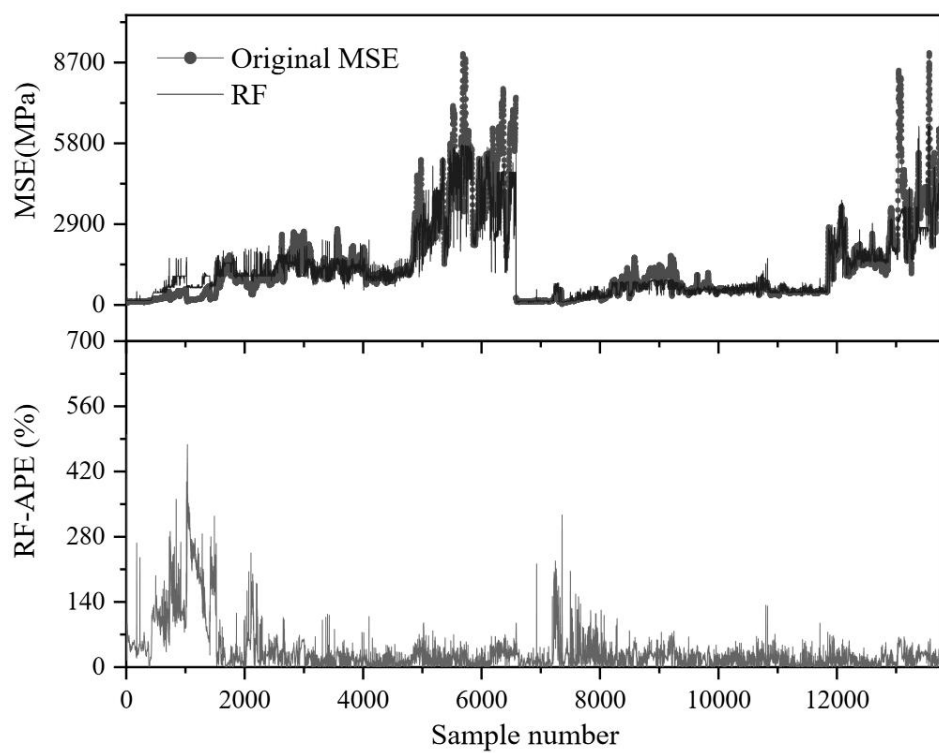


图 4(b)

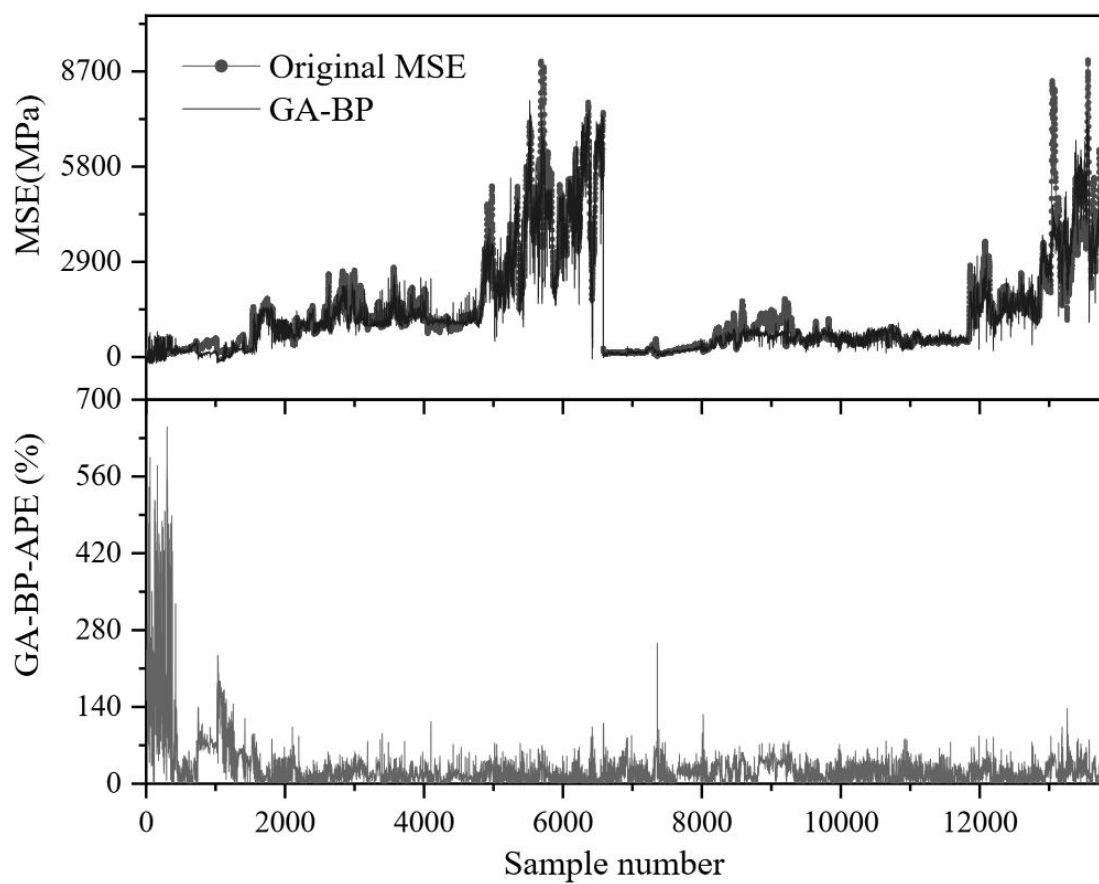


图 4 (c)

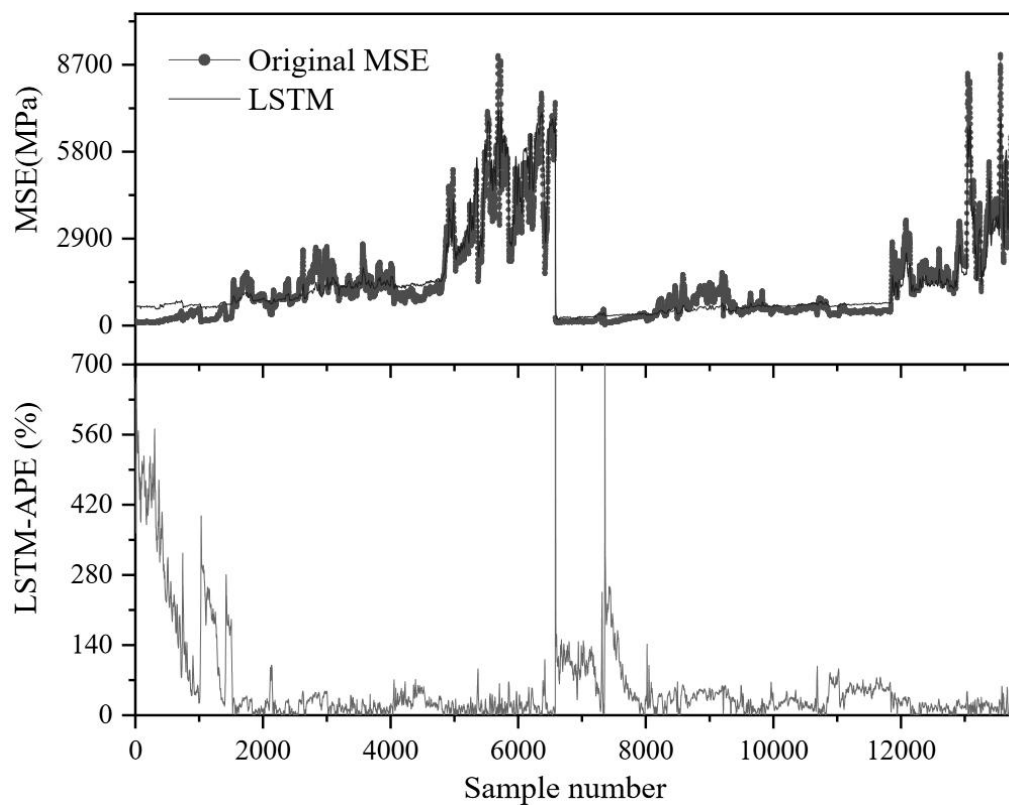


图 4(d)

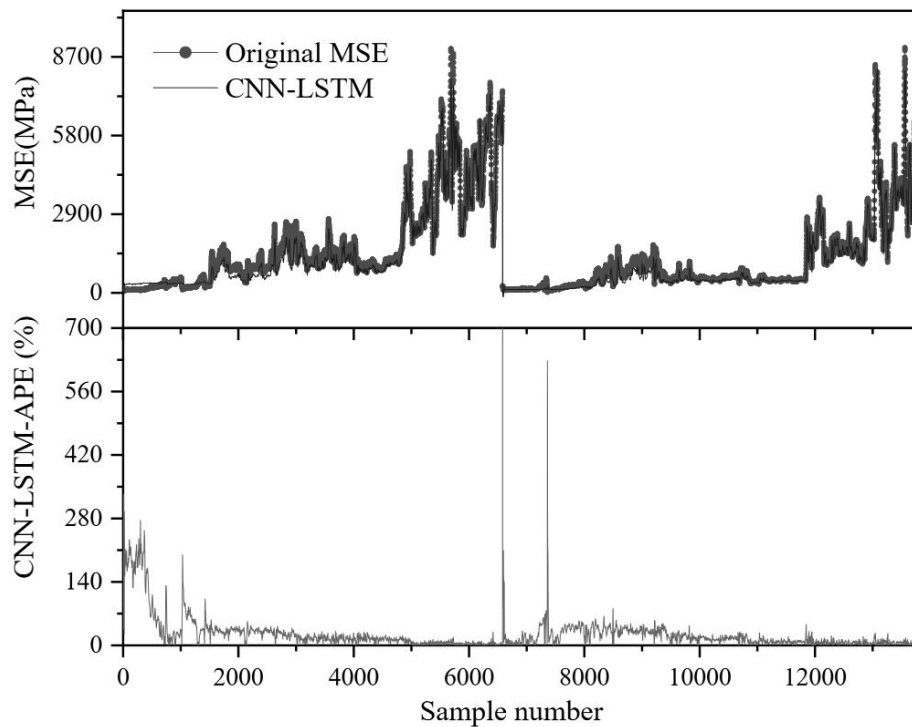


图 4 (e)

SVM:  $R^2 = 0.74$

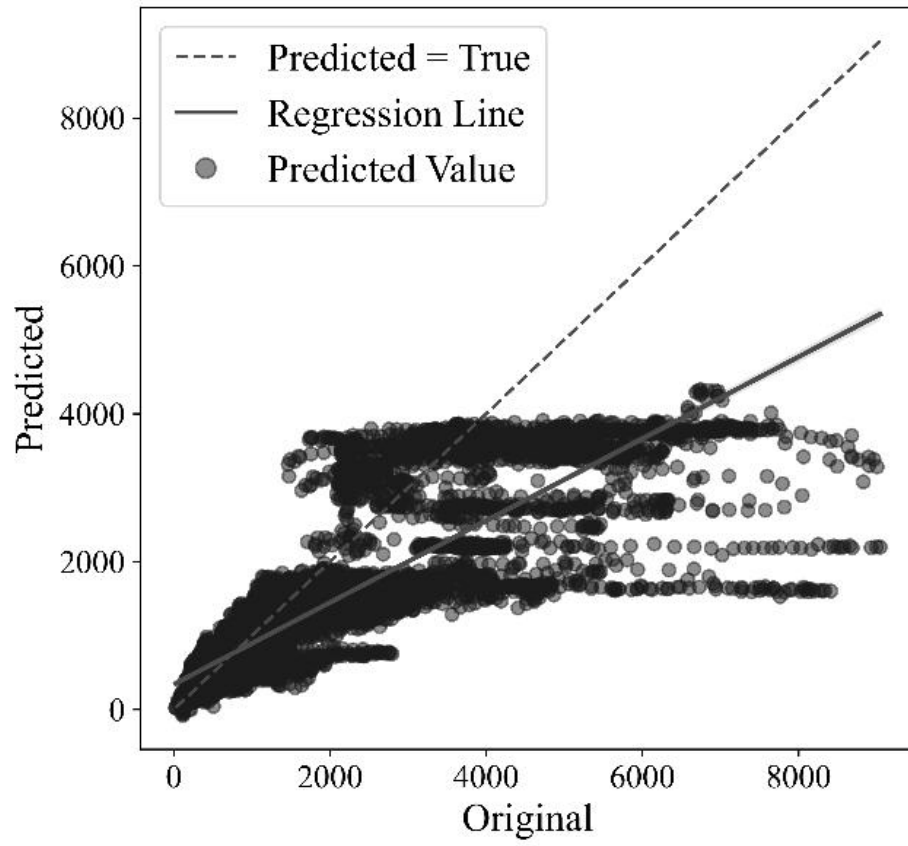


图 5 (a)

RF:  $R^2 = 0.87$

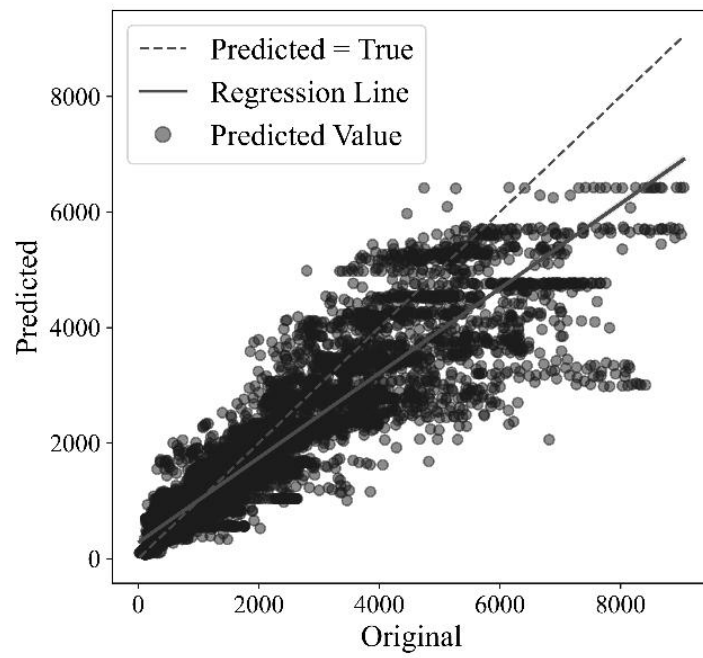


图 5 (b)

GA-BP:  $R^2 = 0.89$

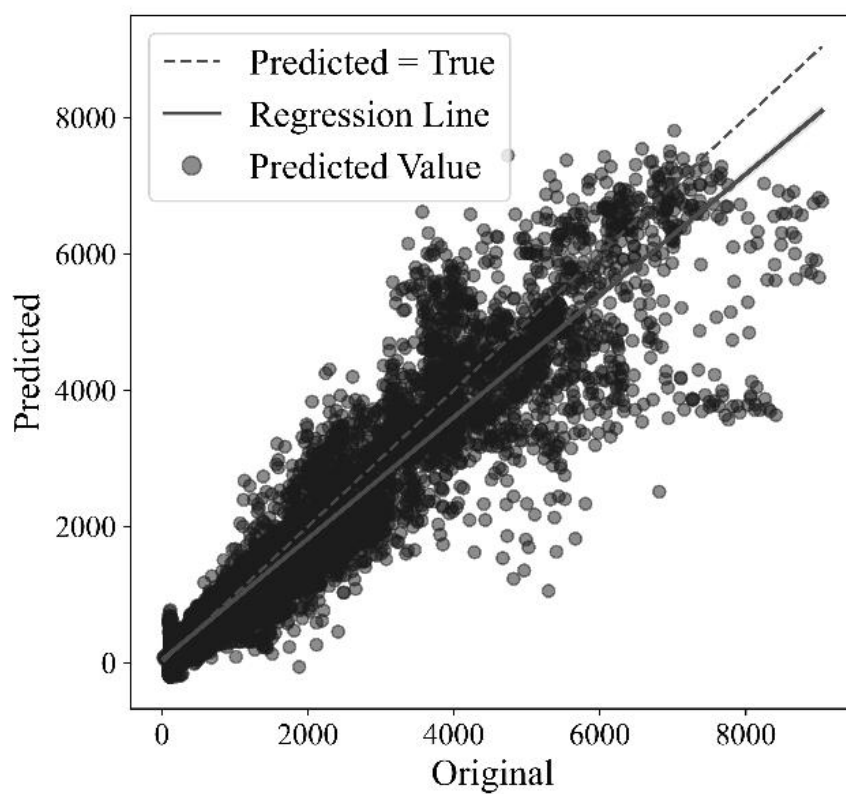


图 5 (c)

LSTM:  $R^2 = 0.90$

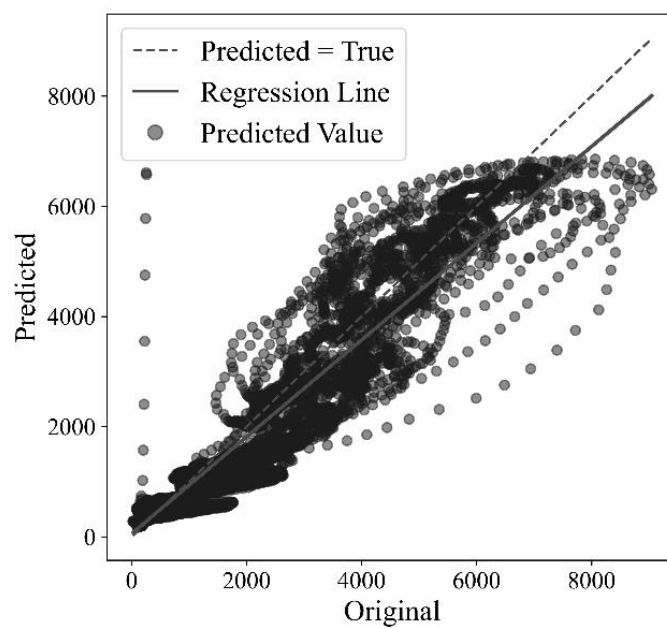


图 5 (d)



CNN-LSTM-Attention:  $R^2 = 0.93$

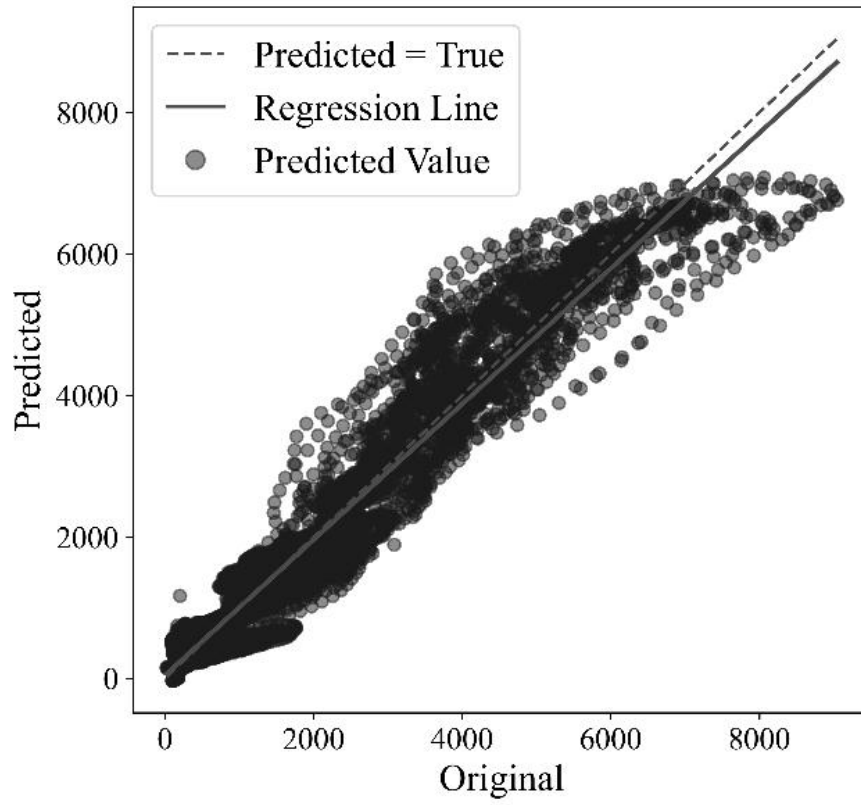


图 5 (e)

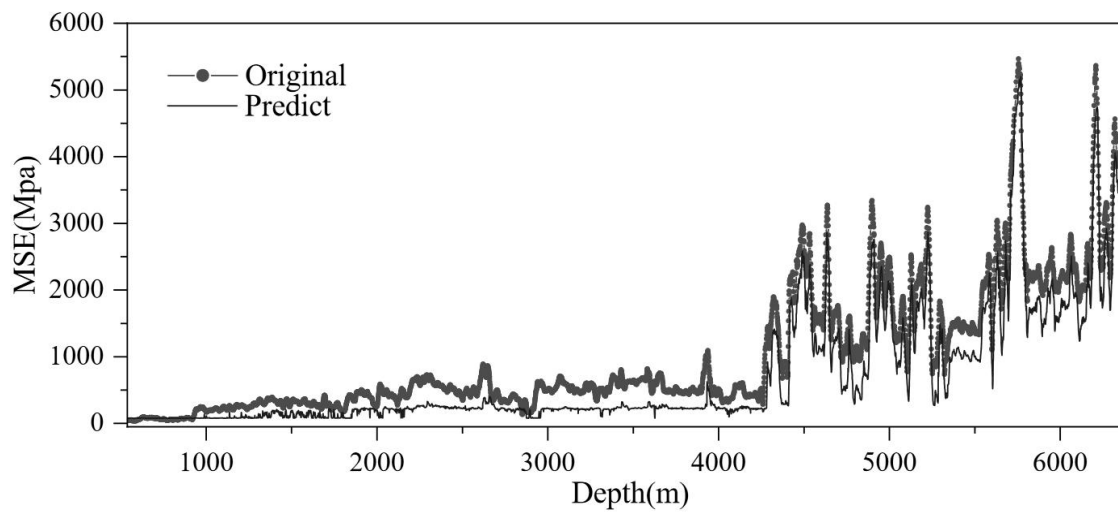


图 6

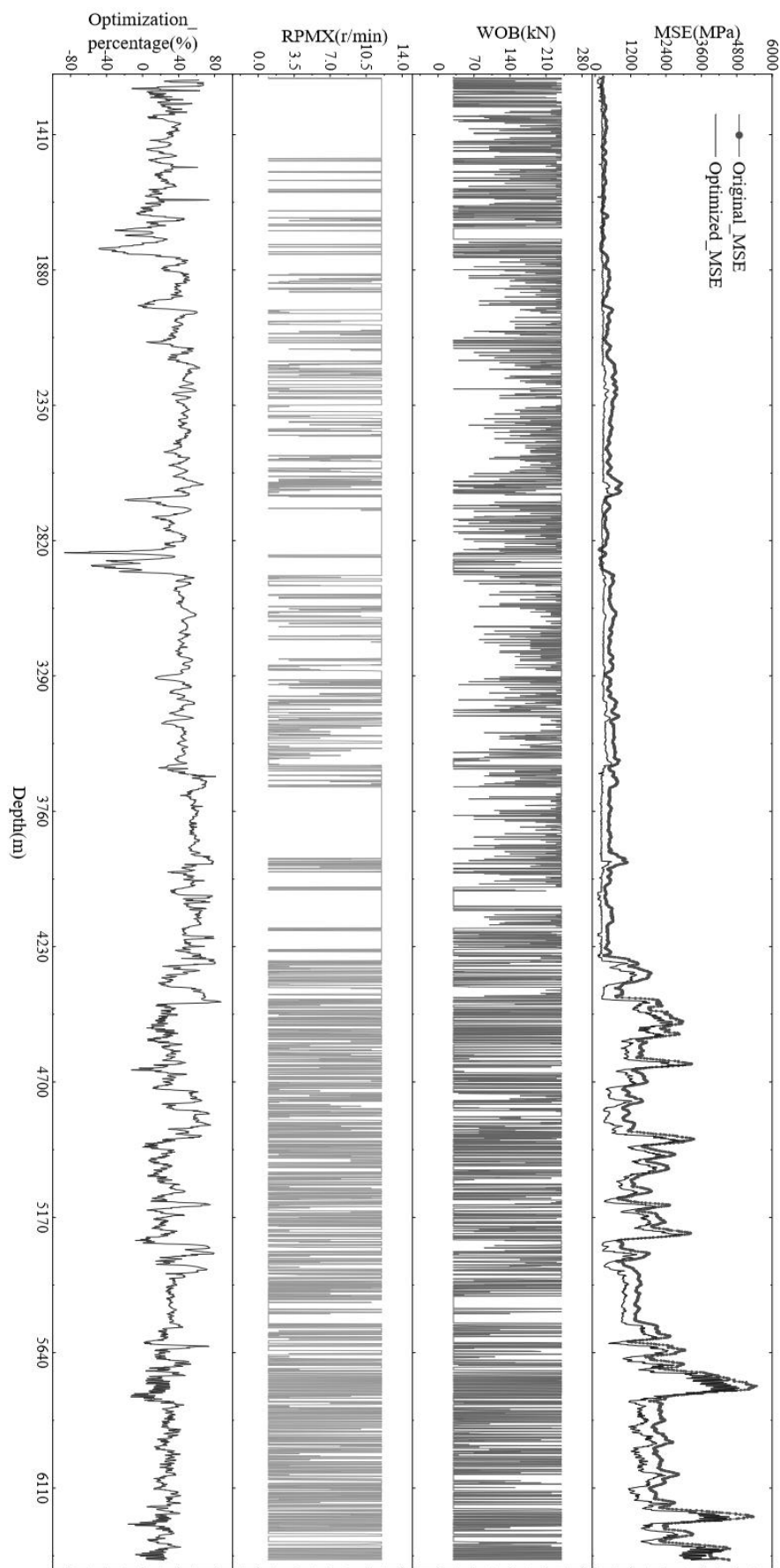


图 7

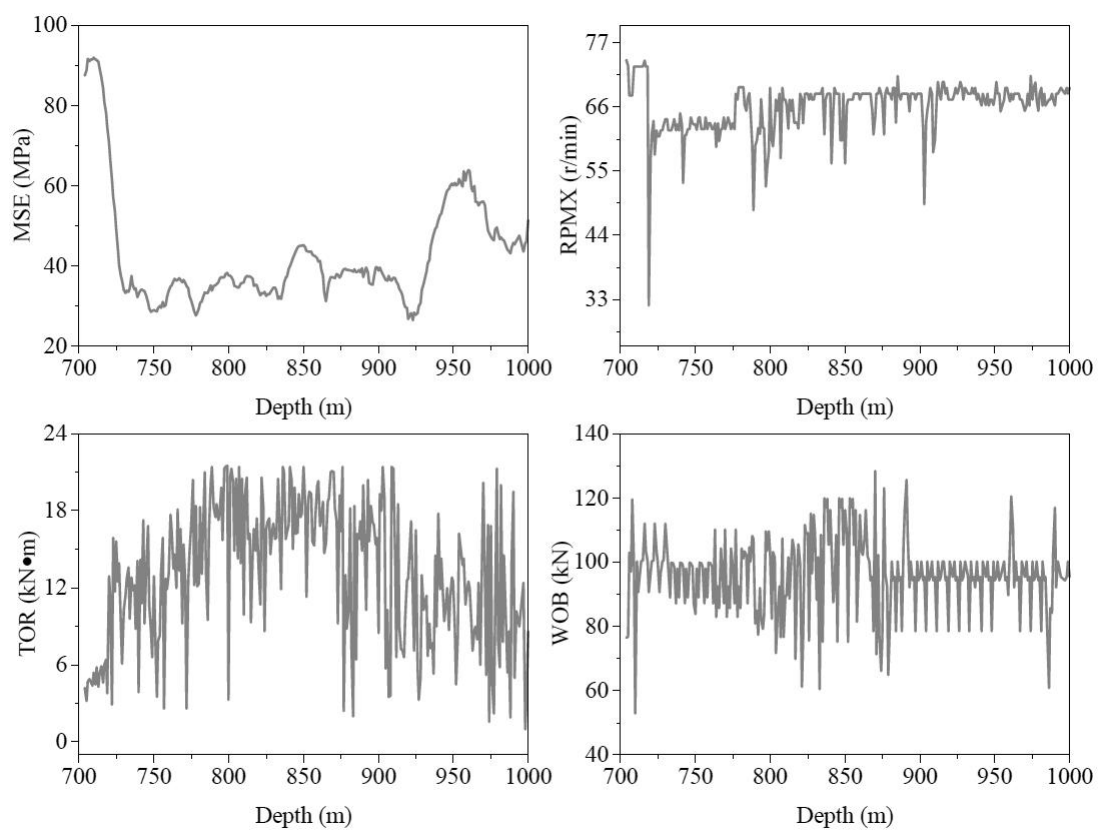


图 8