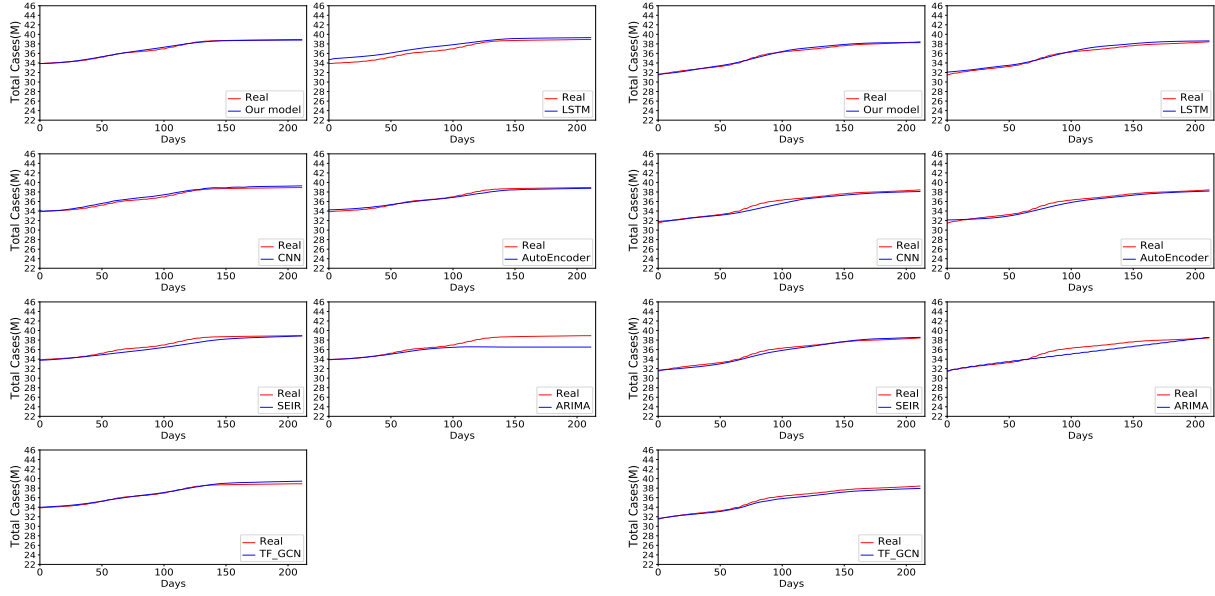


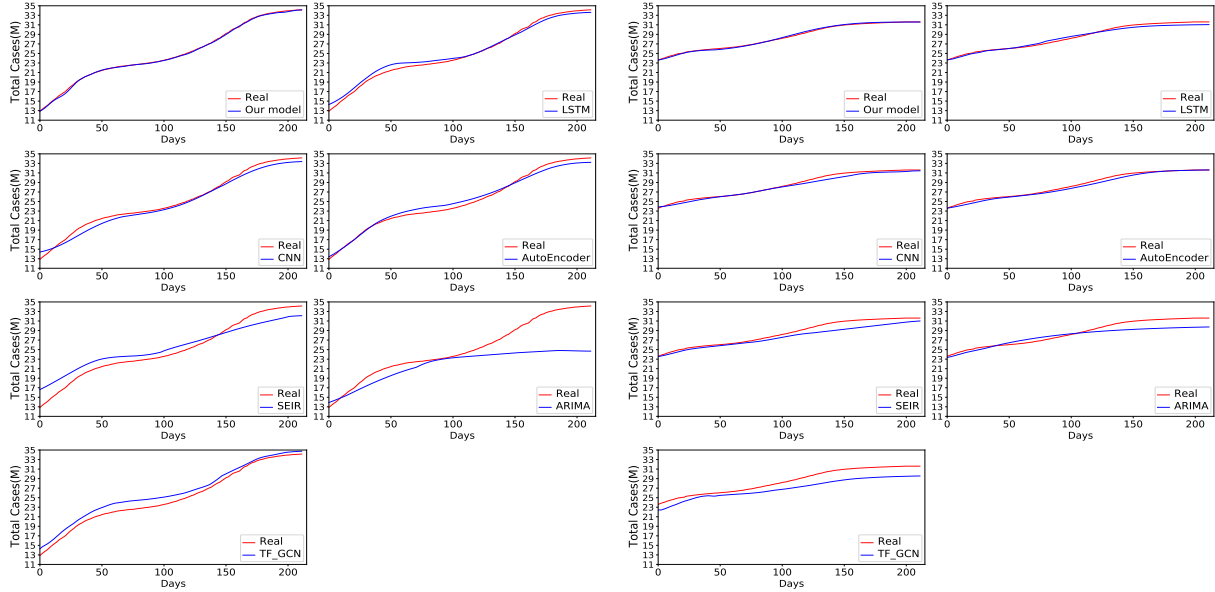
A Appendix: The Prediction Performance of Different Models

The following figure illustrates the prediction performance of different models. The X-axis of each sub-figure represents the days ahead from the current time point, and Y-axis represents the total number of confirmed cases in millions (M). The red line represents the ground truth, and the blue line represents the predicted values. The closer alignment between the two lines indicates a better prediction effect with a smaller absolute error. It can be found that the proposed model has advantages in the accuracy compared with others, no matter to predict which country's confirmed cases in the next 210 days. We also found that the performances of SEIR on two of the four countries are not so good, though it is widely used in the prediction infectious diseases.



(a) France

(b) Germany



(c) Japan

(d) South Korea

Illustration to the Prediction Performance of Different Models.