

Title : Parameter Estimation in COVID-19 model Using Long short-term memory.

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ABSTRACT

The COVID-19 pandemic has significantly impacted global health and economies. Estimating the parameters of epidemic models is crucial for forecasting disease trends and guiding public health policies. This research investigates the use of Long Short-Term Memory (LSTM) neural networks to estimate the parameters of a COVID-19 epidemic model using historical infection data. The objective is to determine whether LSTM can effectively learn and estimate the model parameters. The results are compared with the input data to validate the accuracy of the parameter estimation.

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