

y offset

 $R^2$  (%)

$3.181 \times 10^{-2}$	$5.388 \times 10^{-5}$	$1.73 \times 10^{-1}$	1.0
$2.2 \times 10^{-1}$	$8.02 \times 10^{-2}$	1.0	$1.73 \times 10^{-1}$
$7.15 \times 10^{-4}$	1.0	$8.02 \times 10^{-2}$	$5.388 \times 10^{-5}$
1.0	$7.15 \times 10^{-4}$	$2.2 \times 10^{-1}$	$3.181 \times 10^{-2}$

Forecasting time 2 s

$8.119 \times 10^{-1}$	$8.081 \times 10^{-4}$	$8.822 \times 10^{-3}$	1.0
$3.417 \times 10^{-2}$	$1.625 \times 10^{-3}$	1.0	$8.822 \times 10^{-3}$
$5.072 \times 10^{-3}$	1.0	$1.625 \times 10^{-3}$	$8.081 \times 10^{-4}$
1.0	$5.072 \times 10^{-3}$	$3.417 \times 10^{-2}$	$8.119 \times 10^{-1}$

Forecasting time 3 s

$3.781 \times 10^{-3}$	$5.96 \times 10^{-8}$	$1.874 \times 10^{-2}$	1.0
$2.508 \times 10^{-3}$	$5.507 \times 10^{-2}$	1.0	$1.874 \times 10^{-2}$
$5.96 \times 10^{-8}$	1.0	$5.507 \times 10^{-2}$	$5.96 \times 10^{-8}$
1.0	$5.96 \times 10^{-8}$	$2.508 \times 10^{-3}$	$3.781 \times 10^{-3}$

Forecasting time 4 s

$2.002 \times 10^{-1}$	$5.96 \times 10^{-8}$	$8.345 \times 10^{-7}$	1.0
$4.172 \times 10^{-7}$	$3.668 \times 10^{-2}$	1.0	$8.345 \times 10^{-7}$
$5.96 \times 10^{-8}$	1.0	$3.668 \times 10^{-2}$	$5.96 \times 10^{-8}$
1.0	$5.96 \times 10^{-8}$	$4.172 \times 10^{-7}$	$2.002 \times 10^{-1}$

Forecasting time 5 s

$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	1.0
$5.96 \times 10^{-8}$	$9.158 \times 10^{-1}$	1.0	$5.96 \times 10^{-8}$
$5.96 \times 10^{-8}$	1.0	$9.158 \times 10^{-1}$	$5.96 \times 10^{-8}$
1.0	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$

Forecasting time 10 s

$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	1.0
$5.96 \times 10^{-8}$	$5.424 \times 10^{-1}$	1.0	$5.96 \times 10^{-8}$
$5.96 \times 10^{-8}$	1.0	$5.424 \times 10^{-1}$	$5.96 \times 10^{-8}$
1.0	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$

Forecasting time 20 s

$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	1.0
$5.96 \times 10^{-8}$	$8.949 \times 10^{-1}$	1.0	$5.96 \times 10^{-8}$
$5.96 \times 10^{-8}$	1.0	$8.949 \times 10^{-1}$	$5.96 \times 10^{-8}$
1.0	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$	$5.96 \times 10^{-8}$

Forecasting time 30 s

UniTS

LSTM Third

GRU Reference

GRU Att 2