① Optimal driving signal ② Forcing parameters ③ Time variable

a

500 data points | *550 data points* | *600 data points* | *650 data points* | *700 data points*

Inference inaccuracy (sMAPE)

b

300 data points | *350 data points* | *400 data points* | *450 data points* | *500 data points*

Inference inaccuracy (sMAPE)

Basis function library with degree k

Cusp bifurcation

c

Fraction of bifurcation

100% | 19% | 70%

Bifurcation inaccuracy (timepoint)

Prediction inaccuracy (NED)

Kuramoto oscillators

d

Interaction: $\sin(\theta_j + \theta_i)$ | *Interaction:* $\cos(\theta_j - \theta_i)$

Prediction inaccuracy (NED)