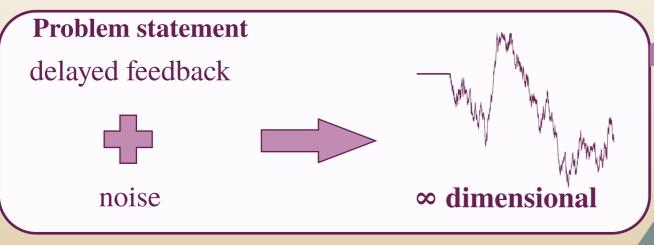
Dimensionality reduction of stochastic differential equations with distributed delays

Alexandre René (University of Ottawa — caesar)

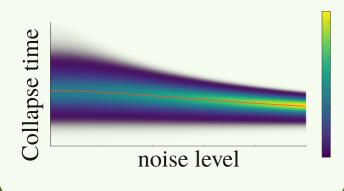


Solution method

Decomposition into modes

Dimensional collapse

System collapses to space spanned by dominant mode



Modes are strongly hierarchized

Analytical expressions for

- solutions
- autocoriance/autocorrelation