Nonlinear controllability via the initial state - with application to the spread of rabies

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Liu , Bin : Approximate controllability of impulsive Riemann

Jozsef Farkas, University of Stirling Modelling structured populations: from partial differential equation to delay formulation We consider a structured model with distributed states at birth. Furthermore, proper lumping, which creates reduced state-variables as straightforward sums of the originals, retains a degree of a biological interpretability that may not hold for alternative, coordinate transforming methods of model reduction.

Controllability of complex networks

Zooms into P2, UP, and USS are shown as top-right insets.

A canonical model of the one

The problem is to prevent the spread of the rabies virus by vaccinating or culling foxes via the distribution of bait in a region around an observed outbreak.

Liu , Bin : Approximate controllability of impulsive Riemann

This way, we reduce the original delay system to a finite number of nonlinear Ordinary Differential Equations ODEs. In this ideal case, each agent is at the same distance from all of its neighbors on the proximity graph.

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