psd

MASTER'S THESIS PRESENTATION

Cascading Failure Event Computation with Optimal Control

WHEN May, 10th, 2021 3:00 PM, CDT

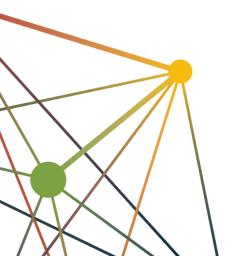
WHERE Via ZOOM

ZOOM information will be provided in the email announcement for this seminar.



Pinrui Yu, MS candidate

In this paper, to overcome the problem of high computation complexity existing in geometric minimum action method (gMAM) when computing the most possible exit path, we build Euler-Lagrange equation and use shooting method instead and compare it with gMAM on the numerical example, which illustrates the advantages of shooting method both in accuracy and efficiency. Numerical simulation is also given in this paper and we compare the performance of these two methods when computing the optimal exit trajectory.



stat.uchicago.edu

