Optimal Control of Discrete Time Models

By

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This talk will present optimal control of two examples which are discrete in time. The first example involves difference equations that model cardiopulmonary resuscitation. The goal is to design an external chest pressure pattern to improve the blood flow in the heart in standard CPR procedure. A population model which is discrete in time and continuous in space with harvesting control is the second example. The dispersal of the population is modeled by an integral of the population density against a kernel function.

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