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An Introduction To Optimal Control

A bang-bang control As we will see later in

§ 4.4.2, an optimal control  $(\cdot)$  is given by  $(t) = \begin{cases} 1 & \text{if } 0 \leq t < t \\ 0 & \text{if } t < T \end{cases}$  for an appropriate switching time  $0 \leq t \leq T$ . In

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other words, we should  
reinvest all the output  
(and therefore consume  
nothing) up until time  
 $t$ , and afterwards, we

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in particular to the use of  
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the definition of Optimal  
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give a simple example. In  
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A more general  
introductory text to all  
optimal control can be  
found here. Discretizing  
the Trajectory. Let 's say  
we have some trajectory.  
The first task we have to  
do to put the trajectory in  
the standard form is to  
discretize it. I 'm going  
to break the trajectory  
below into 3 distinct



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points. At each of these  
points there ' s a state  $X$ ,  
a time  $t$ , and a control,  $U$ .

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and Economics serves as  
an excellent textbook for  
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mathematics, physics,  
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science, biology,  
biotechnology, and  
economics. The work is  
also a useful reference for  
researchers and  
practitioners working  
with optimal control  
theory in these areas.

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In optimal control theory, the variable  $\lambda$  is called the costate variable. Following the standard interpretation of Lagrange multipliers, at its optimal value  $\lambda^*$  is equal to the marginal value of relaxing the constraint. In this case,

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that means that  $\lambda$  is equal to the marginal value of the state variable,  $x(t)$ . The costate variable plays a critical role in

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Optimal ... To

Optimal control theory is  
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the science of

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Optimal Control Theory:

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Abstract : The report  
presents an introduction  
to some of the concepts  
and results currently  
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for someone acquainted  
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Optimal Control Theory

Emanuel Todorov

University of California

San Diego Optimal

control theory is a

mature mathematical

discipline with numerous

applications in both

science and engineering.

It is emerging as the

computational

framework of choice for

studying the neural

control of movement, in

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much the same way that  
probabilistic infer-

Optimal Control Theory

Optimal Control Theory

is a modern approach to  
the dynamic

optimization without

being constrained to

Interior Solutions,

nonetheless it still relies

on differentiability. The

approach differs from

Calculus of Variations in

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that it uses Control  
Variables to optimize the  
functional. Once the  
optimal path or value of  
the control variables is  
found, the

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optimal estimation are the dual theories that provide the foundation for the modern study of systems. Optimal control can be studied in a purely deterministic context in which the unrealistic assumption is made that perfect information about nature is available.

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Optimal and Robust

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Introduction to ...  
Optimal control is an  
extension of the calculus  
of variations, and is a  
mathematical  
optimization method for  
deriving control policies.  
The method is largely  
due to the work of Lev  
Pontryagin and Richard  
Bellman in the 1950s,  
after contributions to  
calculus of variations by

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