

Week 1: Introduction to the course Optimal Control Theory 1

Introduction to the optimal control theory (Lecture 1.1-1.2)

1. Define control.
2. Introduce the basic elements of the.
3. Describe the concept of the control system.
4. Compare and contrast optimal control with classical control theory. Discuss the main advantages and limitations of optimal control.
5. What are the main steps in the optimal control?
 - a. Define the problem. (What is the desired output?)
 - b. Formulate the control problem.
 - c. Solve the problem. (What is the optimal control?)
 - d. Implement the control. (What is the control signal?)

Mathematical models of control systems (Lecture 1.3 - 1.4)

1. Compare and contrast the different types of control systems.
2. Describe the different types of control systems. (What is the input? What is the output? What is the control signal? What is the disturbance signal? What is the reference signal? What is the feedback signal?)
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Control and optimization (Lecture 1.5 - 1.6)

1. Define optimization.
 - a. What is the objective function? (What is the cost function?)
 - b. What are the constraints? (What are the limits?)
2. Describe the different types of optimization problems.
 - a. What is the objective function? (What is the cost function?)
 - b. What are the constraints? (What are the limits?)
 - c. What is the optimization algorithm? (What is the search algorithm?)
 - d. What is the optimization result? (What is the optimal solution?)
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Optimization of the control (Lecture 1.7 - 1.8)

1. Compare and contrast the different types of optimization.
2. What are the main steps in the optimization of the control?

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David G. Myers, Richard O. Straub



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