

SSY281 Model Predictive Control

## Micro-homework 12

Explicit MPC

Deadline: March 5, 10:00
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Systems & Control  
Department of Electrical Engineering  
Chalmers University of Technology

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## Instructions

This assignment is **individual** and must be solved according to the following rules and instructions:

- Written report:
  - It should be one page with pdf format.
  - The report should be uploaded *before the deadline* to your project document area in PingPong.
  - Name the report as MA12-XX.pdf, where XX is your *group* number.

**Question 1.** *In explicit MPC the optimization problem underlying the MPC controller is solved as a parametric program. What is the parameter?*

**Question 2.** *In explicit MPC, the control law is found in an offline-procedure as function of the current state. How does the control law look like?*

**Question 3.** *What does the on-line phase consist of in an explicit MPC controller?*