Modeling, Simulation and Control of Systems with Dead Time

Ignoring a dead time in a process to be controlled within the design of controllers may lead to inadequate closed loop performance. Within this project existing ideas incorporating the dead time into the controller design procedure will be studied and enhanced. A main focus will be the design an implementation of discrete-time control and estimation algorithms.

In this thesis you will

- study existing design approaches taking into account the dead time

- enhance an existing approach

- perform simulation studies

- implement the developed method on a laboratory setup

  - start: right now

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