

## EXPLICIT NONLINEAR MODEL PREDICTIVE CONTROL

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[\(PDF\) Explicit Nonlinear Model Predictive Control: Theory ...](#)

A nonlinear model predictive control (NMPC) strategy requires the formulation of an optimization problem. For online NMPC the nonlinear programming problem must be solved numerically at every

[Explicit Nonlinear Model Predictive Control - Theory and ...](#)

Nonlinear Model Predictive Control (NMPC) has become the accepted methodology to solve complex control problems related to process industries. The main motivation behind explicit NMPC is that an explicit state feedback law avoids the need for executing a numerical optimization algorithm in real time.

[A Survey on Explicit Model Predictive Control](#)

A Survey on Explicit Model Predictive Control 347 and the choice of the closed set  $X \setminus N \setminus X$ , terminal cost  $F$ , and terminal gain ensure closed-loop stability of the MPC scheme [54].

[Explicit Nonlinear Model Predictive Control: Theory and ...](#)

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[Explicit nonlinear model predictive control for vehicle ...](#)

Nonlinear model predictive control is proposed in multiple academic studies as an ad- vanced control system technology for vehicle operation at the limits of handling, allow- ing high tracking performance and formal consideration of system constraints.

[Explicit non-linear model predictive control for ...](#)

[Explicit Nonlinear Model Predictive Control for Autonomous Helicopters](#) Cunjia Liu, Wen-Hua Chen, John Andrews Abstract Trajectory tracking is a basic function required for autonomous helicopters, but it

[Explicit Nonlinear Model Predictive Control of the Air ...](#)

[Explicit Nonlinear Model Predictive Control of the Air Path of a Turbocharged Spark-Ignited Engine](#) Jamil El Hadei, Sorin Olaru, Pedro Rodriguez-Ayerbe, Guillaume Colin, Yann

[A Survey on Explicit Model Predictive Control | SpringerLink](#)

Abstract. Explicit model predictive control (MPC) addresses the problem of removing one of the main drawbacks of MPC, namely the need to solve a

mathematical program on line to compute the control action.

#### **Explicit constrained nonlinear MPC**

Explicit constrained nonlinear MPC Tor A. Johansen Norwegian University of Science and Technology, Trondheim, Norway

Main topics Approximate explicit nonlinear MPC based on orthogonal search trees

Approximate explicit nonlinear MPC based on local mp-

QP solutions Discussion and summary Explicit constrained nonlinear MPC I, Part I Approximate explicit constrained nonlinear MPC based on

#### **Model predictive control - Wikipedia**

Model predictive control (MPC) is an advanced method of process control that is used to control a process while satisfying a set of constraints. It has been in use in the process industries in chemical plants and oil refineries since the 1980s.

#### **Explicit solutions for nonlinear model predictive control ...**

Abstract: A methodology for the construction of an explicit nonlinear control law approximating nonlinear constrained finite-time optimal control (CFTOC) is presented. This is achieved by means of a modelling technique that permits the use of an approximate mapping of a general nonlinear system. A

#### **Explicit Nonlinear Model Predictive Control | SpringerLink**

Nonlinear Model Predictive Control (NMPC) has become the accepted methodology to solve complex control problems related to process industries. The main motivation behind explicit NMPC is that an explicit state feedback law avoids the need for executing a numerical optimization algorithm in real time.

#### **Explicit non-linear model predictive control for electric ...**

comparison of the proposed explicit non-linear model predictive controller with a benchmark PI-based traction controller with gain scheduling and anti-windup features; and ii) a performance comparison among two explicit and one implicit non-linear model predictive controllers based on different internal models, with and without consideration of transient tire behavior and load transfers

#### **Real-time approximate explicit nonlinear model predictive ...**

Abstract: In this paper, we show that nonlinear model predictive control (NMPC) demonstrates excellent performance in driving a reaction wheel pendulum to its unstable equilibrium at which the pendulum is inverted.