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### **Observer Based Model Predictive Control**

To the authors' best knowledge, the observer-based robust model predictive control of non-uniformly sampled systems with arbitrary sampling periods is not

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addressed in the existing literature. In this paper, an observer-based robust model predictive control method is developed to stabilize uncertain sampled-data systems at certified performance where the uncertainty arises from variations of sampling period.

**Robust observer-based model predictive control of**

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Model predictive control, generally based on state space models, needs the complete state for feedback. In this paper the complete state is assumed not to be known and only outputs and inputs of the system are measured. To obtain knowledge of the full state an observer is used to obtain an estimate of the state.

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## **Observer-based model predictive control:**

### **International ...**

Observer-based Model Predictive Control of a parabolic-trough field

1. Introduction. A great interest in the use of renewable energies has been awakened by the increasing demand to reduce... 2. ACUREX solar collector field. The ACUREX field ( Fig. 1 ), located at the



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Model Predictive Control, generally based on state space models, needs the complete state for feedback. In this paper the complete state is assumed not to be known and only outputs and inputs of

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the system are measured. To obtain knowledge of the full state an observer is used to obtain an estimate of the state.

### **OBSERVER BASED MODEL PREDICTIVE Bas Roset Henk Nijmeijer**

Motivated by the above considerations, we propose an Observer-based Economic Model Predictive (OEMPC) scheme for the DCMD

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process. The OEMPC combines both EMPC and a nonlinear observer. The nonlinear observer estimates the system states based on the measurements, and the EMPC obtains the observer estimates to predict the future evolution of the process so that optimal control actions can be computed.

**Observer-based**

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**Economic Model  
Predictive Control  
for ...**

An efficient sliding mode observer-based model predictive control: experimental implementation on a DC/DC power converter - Bedri Bahtiyar, Meriç Çetin, Selami Beyhan, Serdar İplikçi, 2018. Intended for healthcare professionals.

**An efficient sliding mode observer-**

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An Observer-Based  
Finite Control Set  
Model Predictive  
Control for Three-Phase  
Power Converters 1.  
Introduction. Power  
converters based on  
pulse-width modulation  
(PWM) technology have  
been widely applied in  
modern... 2. Operating  
Principle of Classical  
FCS-MPC. Like classical  
control strategy of ...

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The identification algorithm is incorporated into the adaptive model predictive control to minimize the model uncertainty and the influences of the disturbance observer.

**Abstract** This paper presents an adaptive model predictive control (MPC) method based on disturbance

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observer (DOB) to improve the disturbance rejection performance of the image-based visual servoing (IBVS) system.

### **Disturbance observer based adaptive model predictive ...**

The model predictive control (MPC) scheme effectively handles the constraints on the control input and state

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by numerically optimizing a cost index of the feasible state space . However, for power-electronics applications, it is difficult to implement the MPC scheme using a practical digital signal processor (DSP) owing to its online computational burden.

**Disturbance-  
observer-based  
model predictive  
control for ...**



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In order to identify the faults of the radar and the vehicle acceleration sensor related to the automated longitudinal control, the multiple sliding mode observer and prediction of model predictive control (MPC) algorithm are applied.

### **Model predictive control-based fault detection and ...**

Observer Based Model

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Predictive Control To  
the authors' best  
knowledge, the  
observer-based robust  
model predictive  
control of non-  
uniformly sampled  
systems with arbitrary  
sampling periods is not  
addressed in the  
existing literature.

## **Observer Based Model Predictive Control Researchgate**

This strategy is based

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on the discrete mathematical model of PMSM. This new control strategy consists of two main steps: First, an integrator is applied to calculate current compensation value;...

### **(PDF) Luenberger Position Observer Based on Deadbeat**

...

Sliding-Mode Observer  
Based Voltage-  
Sensorless Model  
Predictive Power

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Control of PWM  
Rectifier Under  
Unbalanced Grid  
Conditions. Abstract: A  
sliding-mode grid  
voltage observer  
(SMGVO) is proposed  
and experimentally  
verified in this paper  
for voltage-sensorless  
operation under an  
unbalanced network.  
The fundamental  
positive sequence  
component (FPSC) and  
fundamental negative  
sequence component

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(FNSC) are inherently  
separated in the  
observer without  
employing any  
additional filters.

**Sliding-Mode  
Observer Based  
Voltage-Sensorless  
Model ...**

This paper presents the design, analysis, and validation of a novel control scheme termed model prediction control (MPC) with real-time modified

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reference based on  
disturbance observer  
(DOB) to suppress the  
hysteresis nonlinearity  
and model uncertainty,  
in which the nonlinear  
effects are treated as  
an unknown  
disturbance to the  
system.

### **Disturbance observer-based model prediction control with ...**

Moreover, a completely  
distributed state

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observer is established for both system states and sensor faults problem with bounded noise uncertainties. For the intermittent actuator faults, actuator plug-and-play design methods based on model predictive control has been introduced, making the actuator faults estimation omitted.

**Observer-based  
cooperative**

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**distributed  
fault-tolerant ...**

An efficient model predictive control design for ship autopilot, which is a representative marine application, is proposed based on projection neural network in this article. Ship motion control at sea exhibits the characteristics of large inertia, strong nonlinearity, and large delay; furthermore, it is



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frequently influenced  
by the external ...

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**An efficient ship  
autopilot design  
using observer-  
based ...**

Model predictive control, MPC, is a widely used industrial technique for advanced multivariable control. An overview is given in [QB 1996]. For processes with strong interaction between different signals MPC

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can offer substantial performance improvement compared with traditional single-input single-output control strategies.

## **State-Space Models in Model Predictive Control**

Model predictive control (MPC) is an advanced method of process control that is used to control a process while

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satisfying a set of constraints. It has been in use in the process industries in chemical plants and oil refineries since the 1980s. In recent years it has also been used in power system balancing models and in power electronics.

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