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Observer Based Model
Predictive Control
MODEL PREDICTIVE
CONTROL VIA
EXTENDED

OBSERVER Often a
Model Predictive
Control strategy, like
the one discussed in this
paper, is based on the
knowledge of the full
state. In this paper the
state is estimated by the
observer in the

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Extended Nonlinear
Observer Canonical
Form as presented.

Observer based model
predictive control -
ScienceDirect

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

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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.

Observer-based model predictive control:

International ...

Observer-based Model Predictive Control of a parabolic-trough field 1.

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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 Plataforma Solar de Almería, ...

Observer-based Model
Predictive Control of a

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parabolic ... Based

In this work, we present
an Observer-based

Economic Model

Predictive Control

(OEMPC) scheme for
Direct Contact

Membrane Distillation
(DCMD). To compute
control actions via MPC
strategy, full knowledge
of the system states is
necessary to predict the
future evolution of the

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Observer-based
Economic Model
Predictive Control for ...

Model predictive
control in combination
with discrete time non-
linear observer theory is
studied in this paper.

Model predictive
control, generally based
on state space models,
needs the complete ...

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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
addressed in the existing
literature. In this paper,
an observer-based
robust model predictive

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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 non ...

In this paper, a discretization-based

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sliding mode observer (DBSMO) is proposed for the state and parameter estimation of nonlinear systems. In the DBSMO structure, an accurate discretized dynamics are derived for the state and parameter update of the sliding mode observer (SMO) instead of integration-based state update.

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An efficient sliding
mode observer-based
model predictive ...

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

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modern... 2. Operating
Principle of Classical
FCS-MPC. Like
classical control strategy
of ...

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An Observer-Based
Finite Control Set
Model Predictive ...

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

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by numerically based
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-

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Model Predictive
control for ...

Sliding-Mode Observer
Predictive
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

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verified in this paper for
voltage-sensorless
operation under an
unbalanced network.

The fundamental
positive sequence
component (FPSC) and
fundamental negative
sequence component
(FNSC) are inherently
separated in the
observer without
employing any
additional filters.

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

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

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Model

Model predictive
control-based fault
detection and ...

First the Model
Predictive Control

scheme is briefly
explained. The observer
theory is explained in
section 3. In section 4
the proposal to combine
the used Model
Predictive Control

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Model
Predictive
Control
ResearchGate

scheme and the observer theory is set forth. An example is given in section 5. Finally some conclusions are drawn in section 6. 2. THE MODEL PREDICTIVE CONTROL SCHEME

OBSERVER BASED
MODEL PREDICTIVE

Bas Roset Henk
Nijmeijer

In this study, an

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Observer-based robust model predictive control scheme is proposed to control a class of switched nonlinear systems in the presence of time delay and parametric uncertainties under arbitrary switching.

Observer-based robust model predictive control of switched ...

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Control
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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 -
CORE

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

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presents an adaptive model predictive control (MPC) method based on disturbance observer (DOB) to improve the disturbance rejection performance of the image-based visual servoing (IBVS) system.

Disturbance observer
based adaptive model
predictive ...

Moreover, a completely

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distributed state 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.

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Observer-based
cooperative distributed
fault-tolerant ...

strategies have been
proposed: Model
predictive control
(MPC), robust control
[3,4], sliding mode
control [3,5], adaptive
control [6,7] observer-
based control [8-10],
fuzzy control, and
neural network control

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[7,11]. The MPC is an advanced control method widely used in industrial applications, owing to its

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Sliding Mode Observer-
Based Parameter
Identification and ...
An efficient model
predictive control
design for ship
autopilot, which is a
representative marine

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Observer, 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 frequently influenced by the external disturbances, leading to a complex uncertain problem.

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

Fingerprint Dive into
the research topics of 'D
isturbance-observer-
based model predictive
control for output
voltage regulation of
three-phase inverter for
uninterruptible-power-
supply applications'.

Together they form a

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unique fingerprint.

Uninterruptible power
systems Engineering &
Materials Science

Control

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