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Sliding Mode Control
Part I ~~An Introduction~~
~~to Sliding mode~~
~~Control: Basics~~
~~Discrete Time Sliding~~
~~Mode Control I~~
~~Lecture by Sohem~~

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Chakrabarty

Sliding mode Control:
Chattering
Attenuation \u0026amp;
Elimination

~~Introduction to Sliding
Mode Control~~

~~Lecture by Sarah K~~

~~Spurgeon Lecture 33:~~

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~~Introduction to Sliding~~

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Second-order Sliding

mode Control

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Nonlinear Discrete
System Control Part V
- Sliding mode
control_Dr. Sira

Ramirez Sliding Mode
Control Lecture 01 by
Yasir Amir Khan 5.7

Sliding Mode Control

Conventional Sliding
Mode Controller
Design

Sliding-Mode Control
of a Ball on Wheel
System

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~~Control 4.3 Linear
Versus Nonlinear~~

~~Systems commande
d'une MAS par mode
glissant (command of
a MAS by sliding
mode) Model~~

Predictive Control

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Introduction to Robust

Control Controller

Modes

Improved design of
sliding mode

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Mode Control on
the requirements of
MPPT techniques

Digital control 15:

Controller design by
emulation, Part 2

4.5 Observers Digital
control 26:

Implementation of
digital controllers

Adaptive Sliding-
Mode Control for

Boost DC-DC

Converters: MATLAB

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Mode Control II -
Lecture by Sohom

Chakrabarty Fuzzy
Integral Sliding Mode
Control Introduction to
Sliding Mode

Observers I - Lecture
by Sarah K Spurgeon

Fuzzy Sliding Mode
Control Integral
Sliding Mode

Controller Nonlinear

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Mode Control for
PMSM System Using
Sliding-Mode Control
\u0026amp; Disturbance
Compensation

~~Stabilization of a Ball
on Sphere System
Using Sliding Mode
Control Discrete
Sliding Mode Control
For~~

Here the aim is to
stabilize the states by
using discrete-time

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Mode Control
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Time

sliding mode control. f
 k is the disturbance
which is upper
bounded by 0.01. The
value of $c T$ is chosen
as $0.1 \leq 1$. The value
of λ is chosen as 0.1,
and the value of μ is
taken as 0.2544 as
per Remark 3. The
value of ultimate band
is found to be 0.4544.
Simulation is done in
MATLAB/Simulink in

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Mode Control with
sampling time 1 ms.

Discrete Time Sliding
Mode Control |

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analyzed speci cally
for discrete-time

sliding mode control
(DSMC). 4. Discrete-

Time Sliding Mode
Control (DSMC) via

NCS with Delay In

this work, the

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Mode Control
Proposed DSMC law
can be of the form $(\dot{s}) =$
eq + , < +1 , () where
eq R is the equivalent
control vector, which
establishes the
system dynamics in
sliding mode, and R is
the control signal
vector that takes the
trajectory of states to
the sliding surface.

Research Article

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Discrete-Time Sliding
Mode Control for ...

IET Digital Library:

Tracking Of
Time
Sliding mode control
for uncertain discrete-
time systems based
on fractional order
reaching law The
design and validation
of a new fractional
order (FO) reaching
law for uncertain
discrete-time systems
is studied. A sliding

Download Free Discrete Sliding Mode Controller is subsequently constructed by adopting this law. Time

Sliding mode control
for uncertain discrete-
time systems ...

This work deals with
sliding mode control
of discrete-time
systems where the
outputs are defined or
chosen to be of

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Mode Control
relative degrees more than one. The analysis brings forward important advancements in the direction of discrete-time sliding mode control, such as improved robustness and performance of the system.

Discrete-Time Sliding
Mode Control with

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Outputs of ...
Discrete Sliding Mode
Control for
Tracking Of
Missile A discrete
variable structure
control (DVSC) with
sliding vector is
presented to track the
velocity and
acceleration
command for a
hypersonic cruise
missile. In the design

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Time

an integrator is augmented to ensure the tracking with zero steady-state errors.

Discrete Sliding Mode Control for Hypersonic Cruise Missile

Analysis and design of a dimming control based on the Discrete Sliding Mode Control (DSMC) strategy for

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electronic ballasts
(without resonant
tank) is presented. To
avoid the acoustic
resonance

phenomenon, the
proposed scheme
feeds the lamp with
low frequency square
waves, and then to
stabilize the lamp
current a dc-dc
converter with a
closed loop control

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stage is included.
For Robust
Tracking Of
Time
Analysis and design
of discrete-sliding
mode control for a ...

In , a discrete-time
sliding mode
controller was
proposed for higher
order plus delay time
processes. In this
paper, the main
contribution is to
develop a discrete-

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mode sliding control approach, which can globally stabilize all states, including those which are indirectly actuated through the nonlinear coupling, for a small quadrotor UAV.

Discrete-time sliding mode control for a quadrotor UAV ...

Buy Discrete-Time

Page 21/40

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Sliding Mode Control

Protocols for Discrete
Multi-Agent System:
303 (Studies in

Systems, Decision
and Control) 1st ed.

2021 by Patel,

Keyurkumar, Mehta,

Axaykumar (ISBN:

9789811563102) from

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Discrete-Time Sliding
Mode Protocols for
Discrete Multi ...

In this paper, a sliding mode control (SMC) of uncertain discrete singular systems with external disturbances and time-varying delays is under consideration. By use of the free weighting matrices and the

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Lyapunov–Krasovskii functional, a delay-dependent sufficient condition is given in strict linear matrix inequality (LMI) format to guarantee the sliding mode dynamics to be admissible (regular, causal and stable).

Robust sliding mode control for uncertain

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Second, a novel adaptive sliding mode surface is designed based on the characteristic model. Furthermore, a discrete-time sliding mode control (DTSMC) law, which makes the tracking error converge into a predefined bound in finite time, is

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Mode Control
proposed by
employing the
parameters of
characteristic model
associated with the
sliding mode surface
to provide better
performances,
robustness, faster
response, and higher
control precision.

Characteristic model-
based discrete-time

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sliding mode ...

Discrete Time Sliding
Mode Control |

IntechOpen The

discrete sliding mode control has been successfully applied in the control of induction motor-based drives [8–10]. Motor torque and rotor flux amplitude are controlled with DSMC in, and. Torque, flux

Download Free Discrete Sliding Mode Control and current components are controlled in a cascade structure in. Time

Discrete Sliding Mode
Control For Robust
Tracking Of Time
In control systems,
sliding mode control
(SMC) is a nonlinear
control method that
alters the dynamics of
a nonlinear system by

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Application of a
discontinuous control
signal (or more
rigorously, a set-
valued control signal)
that forces the system
to "slide" along a
cross-section of the
system's normal
behavior. The state-
feedback control law
is not a continuous
function of time.

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Sliding mode control -
Wikipedia

There are a large number of sliding mode control methods for discrete-time systems (Chakrabarty & Bandyopadhyay, 2015; Zhang et al., 2008). The most commonly used discrete-time sliding mode control method is the reaching law

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Method, which was proposed by Gao et. (Bartoszewicz & Latosiński, 2016).

However, based on the reaching law, the state cannot stay in the sliding surface during the sliding phase.

Discrete-time sliding mode control for a class of ...

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Mode Control and Robust
Discrete-Time Sliding-
Mode Control Design
for a Fluid Power
Electrohydraulic
Actuator (EHA)

System Abstract: This
paper studies the
design of a robust
discrete-time sliding-
mode control (DT-
SMC) for a high
precision
electrohydraulic

Download Free Discrete Sliding Mode Control system.

Modeling and Robust
Discrete-Time Sliding-
Mode Control ...

The discrete
algorithms for sliding
mode control of the
motor speed and rotor
flux are derived in
detail and next tested
in simulation
research. The

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Mode Control
simulation tests
include the discrete
nature of the power
converter supplying
the IM and present
excellent performance
of the developed

Discrete Sliding Mode
Speed Control of
Induction Motor ...

Moreover, by means
of combining model
predictive control and

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CFDL digital integral terminal sliding mode control (CFDL-DITSMC), the CFDL digital integral terminal sliding mode predictive control (CFDL-DITSMPC) method is proposed, which can further improve the tracking accuracy and disturbance rejection performance in

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Discrete Sliding
Mode Control
comparison with the
CFDL-model-free
adaptive control,
neural network quasi-
sliding mode control
and the CFDL-
DITSMC scheme.

Model-free adaptive
integral terminal
sliding mode ...

The Sliding Mode
Control (SMC) is well
known by its

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robustness to
parameter
uncertainties or
external disturbances.

The repetitive control
(RC) is able to track
or reject periodic and
multi-periodic signals.
This paper presents a
new control strategy
as a combination of a
Sliding Mode
approach and
Repetitive Control to

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Mode Control
For Robust
Tracking Of
Time

reject periodic and
multi-periodic
disturbances in the
case of nonlinear ...

New Discrete Sliding
Mode Control for
Nonlinear ...

In this article, a
disturbance observer-
based discrete sliding-
mode control scheme
is proposed for the
speed control of the

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Mode Control
marine diesel engine.

The system
For Robust
Tracking Of
Time Delay
uncertainties and
external disturbances
are estimated by the
designed disturbance
observer based on
the second-order
sliding-mode control.

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