



Sliding Mode Control In Engineering

Jinkun Liu, Xinhua Wang



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Sliding Mode Control In Engineering Wilfrid Perruquetti, Jean-Pierre Barbot, 2002-01-29 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p-adic numbers and related structures Develops a new theory for parabolic equations

Sliding Mode Control and Observation Yuri Shtessel, Christopher Edwards, Leonid Fridman, Arie Levant, 2013-06-01 The sliding mode control methodology has proven effective in dealing with complex dynamical systems affected by disturbances uncertainties and unmodeled dynamics Robust control technology based on this methodology has been applied to many real world problems especially in the areas of aerospace control electric power systems electromechanical systems and robotics Sliding Mode Control and Observation represents the first textbook that starts with classical sliding mode control techniques and progresses toward newly developed higher order sliding mode control and observation algorithms and their applications The present volume addresses a range of sliding mode control issues including Conventional sliding mode controller and observer design Second order sliding mode controllers and differentiators Frequency domain analysis of conventional and second order sliding mode controllers Higher order sliding mode controllers and differentiators Higher order sliding mode observers Sliding mode disturbance observer based control Numerous applications including reusable launch vehicle and satellite formation control blood glucose regulation and car steering control are used as case studies Sliding Mode Control and Observation is aimed at graduate students with a basic knowledge of classical control theory and some knowledge of state space methods and nonlinear systems while being of interest to a wider audience of graduate students in electrical mechanical aerospace engineering and applied mathematics as well as researchers in electrical computer chemical civil mechanical aeronautical and industrial engineering applied mathematicians control engineers and physicists Sliding Mode Control and Observation provides the necessary tools for graduate students researchers and engineers to robustly control complex and uncertain nonlinear dynamical systems Exercises provided at the end of each chapter make this an ideal text for an advanced course taught in control theory

Sliding Mode Control in Electro-Mechanical Systems Vadim Utkin, Juergen Guldner, Jingxin Shi, 2017-12-19 Apply Sliding Mode Theory to Solve Control Problems Interest in SMC has grown rapidly since the first edition of this book was published This second edition includes new results that have been achieved in SMC throughout the past decade relating to both control design methodology and applications In that time Sliding Mode Control SMC has continued to gain increasing importance as a universal design tool for the robust control of linear and nonlinear electro mechanical systems Its strengths result from its simple flexible and highly cost effective approach to design and implementation Most importantly SMC promotes inherent order reduction and allows for the direct incorporation of robustness against system uncertainties and disturbances These qualities lead to dramatic improvements in stability and help

enable the design of high performance control systems at low cost Written by three of the most respected experts in the field including one of its originators this updated edition of Sliding Mode Control in Electro Mechanical Systems reflects developments in the field over the past decade It builds on the solid fundamentals presented in the first edition to promote a deeper understanding of the conventional SMC methodology and it examines new design principles in order to broaden the application potential of SMC SMC is particularly useful for the design of electromechanical systems because of its discontinuous structure In fact where the hardware of many electromechanical systems such as electric motors prescribes discontinuous inputs SMC becomes the natural choice for direct implementation This book provides a unique combination of theory implementation issues and examples of real life applications reflective of the authors own industry leading work in the development of robotics automobiles and other technological breakthroughs Sliding Mode Control Hebertt Sira-Ramírez, 2015-05-25 This monograph presents a novel method of sliding mode control for switch regulated nonlinear systems The Delta Sigma modulation approach allows one to implement a continuous control scheme using one or multiple independent switches thus effectively merging the available linear and nonlinear controller design techniques with sliding mode control Sliding Mode Control The Delta Sigma Modulation Approach combines rigorous mathematical derivation of the unique features of Sliding Mode Control and Delta Sigma modulation with numerous illustrative examples from diverse areas of engineering In addition engineering case studies demonstrate the applicability of the technique and the ease with which one can implement the exposed results This book will appeal to researchers in control engineering and can be used as graduate level textbook for a first course on sliding mode control **International Conference on Mechanism Science and Control Engineering (MSCE 2014)**, 2014-09-02 The aim of MSCE 2014 is to provide a platform for researchers engineers and academicians as well as industrial professionals to present their research results and development activities in mechanism science and control engineering It provides opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration MSCE2014 is conducted to all the researchers engineers industrial professionals and academicians who are broadly welcomed to present their latest research results academic developments or theory practice Topics of interest include but are not limited to Mechanism theory and Application Mechanical control and Automation Engineering Mechanical Dynamics Materials Processing and Control Instruments and Vibration Control It is of great pleasure to see the delegates exchanging ideas and establishing sound relationships on the conference Sliding Mode Control (SMC) David T. Ellis, 2015 Sliding mode control was first introduced in the 1950s It is a nonlinear control technique with many unique properties In this book different aspects of SMC are explored Chapters include new developments in research on a sliding mode governor for hydropower plants integral sliding mode control I SMC for a variable speed wind turbine system and a I SMC method for load frequency control LFC of nonlinear power systems with wind turbines the control of a stand alone photovoltaic PV system

leader follower based formation control of a group of mobile robots the application of Takagi Sugeno T S fuzzy model in coordinated control of multiple robots system an induction motor speed control using the nonsingular terminal sliding mode control method adaptive nonsingular terminal sliding mode NTSM tracking control scheme based on backstepping design presented for Micro Electro Mechanical Systems MEMS vibratory gyroscopes and a hybrid actuator and its control using a cascade sliding mode technique

Applications of Sliding Mode Control in Science and Engineering Sundarapandian Vaidyanathan, Chang-Hua Lien, 2017-04-06 Gathering 20 chapters contributed by respected experts this book reports on the latest advances in and applications of sliding mode control in science and engineering The respective chapters address applications of sliding mode control in the broad areas of chaos theory robotics electrical engineering physics chemical engineering memristors mechanical engineering environmental engineering finance and biology Special emphasis has been given to papers that offer practical solutions and which examine design and modeling involving new types of sliding mode control such as higher order sliding mode control terminal sliding mode control super twisting sliding mode control and integral sliding mode control This book serves as a unique reference guide to sliding mode control and its recent applications for graduate students and researchers with a basic knowledge of electrical and control systems engineering

Control Engineering and Information Systems Zhijing Liu, 2015-01-19 Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems ICCEIS 2014 Yueyang Hunan China 20-22 June 2014 All major aspects of the theory and applications of control engineering and information systems are addressed including Intelligent systems Teaching cases Pattern recognition Industry application Machine learning Systems science and systems engineering Data mining Optimization Business process management Evolution of public sector ICT IS economics IS security and privacy Personal data markets Wireless ad hoc and sensor networks Database and system security Application of spatial information system Other related areas Control Engineering and Information Systems provides a valuable source of information for scholars researchers and academics in control engineering and information systems

Road Map for Sliding Mode Control Design Vadim Utkin, Alex Poznyak, Yury V. Orlov, Andrey Polyakov, 2020-04-13 This book is devoted to control of finite and infinite dimensional processes with continuous time and discrete time control focusing on suppression problems and new methods of adaptation applicable for systems with sliding motions only Special mathematical methods are needed for all the listed control tasks These methods are addressed in the initial chapters with coverage of the definition of the multidimensional sliding modes the derivation of the differential equations of those motions and the existence conditions Subsequent chapters discuss various areas of further research The book reflects the consensus view of the authors regarding the current status of SMC theory It is addressed to a broad spectrum of engineers and theoreticians working in diverse areas of control theory and applications It is well suited for use in graduate and postgraduate courses in such university programs as Electrical Engineering Control of

Nonlinear Systems and Mechanical Engineering *Sliding Mode Control In Engineering* Wilfrid Perruquetti, Jean-Pierre Barbot, 2002-01-29 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p adic numbers and related structures Develops a new theory for parabolic equations over non Archimedean fields in relation to Markov processes **Mechatronics and Control**

Engineering Wen Jin, 2013-07-15 Selected peer reviewed papers from the 2013 Asian Pacific Conference on Mechatronics and Control Engineering APCMCE 2013 March 26 27 2013 Hong Kong Variable Structure Systems Asif Sabanovic, Leonid M. Fridman, Sarah K. Spurgeon, 2004-10-08 This unique book fulfils the definite need for an accessible book on variable structure systems and also provides the very latest results in research on this topic Divided into three parts basics of sliding mode control new trends in sliding mode control and applications of sliding mode control the book contains many numerical design examples so that readers can quickly understand the design methodologies and their applications to practical problems Primarily aimed at students and researchers in the field the book will also be useful for practising control engineers

Proceedings of the ASME Design Engineering Division ,2007 Mechanical, Materials and Manufacturing Engineering Hong Hua Tan, 2011-07-04 Selected peer reviewed papers from the 2011 International Conference on Mechanical Materials and Manufacturing Engineering ICMME 2011 in June 20 22 2011 Nanchang China Hierarchical Sliding Mode Control for Under-actuated Cranes Dianwei Qian, Jianqiang Yi, 2015-10-15 This book reports on the latest developments in sliding mode overhead crane control presenting novel research ideas and findings on sliding mode control SMC hierarchical SMC and compensator design based hierarchical sliding mode The results which were previously scattered across various journals and conference proceedings are now presented in a systematic and unified form The book will be of interest to researchers engineers and graduate students in control engineering and mechanical engineering who want to learn the methods and applications of SMC **Mechanical Engineering, Industrial Electronics and Information**

Technology Applications in Industry B.L. Liu, Ming Hai Yuan, Guo Rong Chen, Jun Peng, 2013-09-27 Selected peer reviewed papers from the 2013 2nd International Conference on Mechanical Engineering Industrial Electronics and Informatization MEIEI 2013 September 14 15 2013 Chongqing China *Sliding Mode Control Using MATLAB* Jinkun Liu, 2017-05-25 Sliding Mode Control Using MATLAB provides many sliding mode controller design examples along with simulation examples and MATLAB programs Following the review of sliding mode control the book includes sliding mode control for continuous systems robust adaptive sliding mode control sliding mode control for underactuated systems backstepping and dynamic surface sliding mode control sliding mode control based on filter and observer sliding mode control for discrete systems fuzzy sliding mode control neural network sliding mode control and sliding mode control for robot manipulators The contents of each chapter are independent providing readers with information they can use for their own needs It is suitable for the

readers who work on mechanical and electronic engineering electrical automation engineering etc and can also be used as a teaching reference for universities Provides many sliding mode controller design examples to help readers solve their research and design problems Includes various implementable robust sliding mode control design solutions from engineering applications Provides the simulation examples and MATLAB programs for each sliding mode control algorithm **Journal of Engineering Mechanics** ,2000 *Advanced Sliding Mode Control for Mechanical Systems* Jinkun Liu,Xinhua Wang,2012-09-07 *Advanced Sliding Mode Control for Mechanical Systems Design Analysis and MATLAB Simulation* takes readers through the basic concepts covering the most recent research in sliding mode control The book is written from the perspective of practical engineering and examines numerous classical sliding mode controllers including continuous time sliding mode control discrete time sliding mode control fuzzy sliding mode control neural sliding mode control backstepping sliding mode control dynamic sliding mode control sliding mode control based on observer terminal sliding mode control sliding mode control for robot manipulators and sliding mode control for aircraft This book is intended for engineers and researchers working in the field of control Dr Jinkun Liu works at Beijing University of Aeronautics and Astronautics and Dr Xinhua Wang works at the National University of Singapore **Journal of Engineering for Gas Turbines and Power** ,2008

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Sliding Mode Control In Engineering Introduction

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