

Model Predictive Control System Design and Implementation Using MATLAB®

Design And Implementation Of Model Predictive Control

**Francesco Borrelli, Alberto
Bemporad, Manfred Morari**



Design And Implementation Of Model Predictive Control:

Model Predictive Control System Design and Implementation Using MATLAB® Liuping Wang,2009-02-14 Model Predictive Control System Design and Implementation Using MATLAB proposes methods for design and implementation of MPC systems using basis functions that confer the following advantages continuous and discrete time MPC problems solved in similar design frameworks a parsimonious parametric representation of the control trajectory gives rise to computationally efficient algorithms and better on line performance and a more general discrete time representation of MPC design that becomes identical to the traditional approach for an appropriate choice of parameters After the theoretical presentation coverage is given to three industrial applications The subject of quadratic programming often associated with the core optimization algorithms of MPC is also introduced and explained The technical contents of this book is mainly based on advances in MPC using state space models and basis functions This volume includes numerous analytical examples and problems and MATLAB programs and exercises

Practical Design and Application of Model Predictive Control Nassim Khaled,Bibin Pattel,2018-05-04 Practical Design and Application of Model Predictive Control is a self learning resource on how to design tune and deploy an MPC using MATLAB and Simulink This reference is one of the most detailed publications on how to design and tune MPC controllers Examples presented range from double Mass spring system ship heading and speed control robustness analysis through Monte Carlo simulations photovoltaic optimal control and energy management of power split and air handling control Readers will also learn how to embed the designed MPC controller in a real time platform such as Arduino The selected problems are nonlinear and challenging and thus serve as an excellent experimental dynamic system to show the reader the capability of MPC The step by step solutions of the problems are thoroughly documented to allow the reader to easily replicate the results Furthermore the MATLAB and Simulink codes for the solutions are available for free download Readers can connect with the authors through the dedicated website which includes additional free resources at www.practicalmpc.com Illustrates how to design tune and deploy MPC for projects in a quick manner Demonstrates a variety of applications that are solved using MATLAB and Simulink Bridges the gap in providing a number of realistic problems with very hands on training Provides MATLAB and Simulink code solutions This includes nonlinear plant models that the reader can use for other projects and research work Presents application problems with solutions to help reinforce the information learned

Incremental Model Predictive Control System Design and Implementation Using MATLAB/Simulink Xin Lin,2013 The integral and model predictive controller MPC drive controlled outputs to their desired targets and this thesis addresses the problem of integral controller incremental and integral MPC when tracking the constant or inconstant references Design and implementation of the MPC under MATLAB Simulink environment are discussed both in incremental and integral form Also one CSTR example is presented to compare the control performances among different integral controller and MPCs

Predictive Control for Linear and Hybrid Systems

Francesco Borrelli,Alberto Bemporad,Manfred Morari,2017-06-22 Model Predictive Control MPC the dominant advanced control approach in industry over the past twenty five years is presented comprehensively in this unique book With a simple unified approach and with attention to real time implementation it covers predictive control theory including the stability feasibility and robustness of MPC controllers The theory of explicit MPC where the nonlinear optimal feedback controller can be calculated efficiently is presented in the context of linear systems with linear constraints switched linear systems and more generally linear hybrid systems Drawing upon years of practical experience and using numerous examples and illustrative applications the authors discuss the techniques required to design predictive control laws including algorithms for polyhedral manipulations mathematical and multiparametric programming and how to validate the theoretical properties and to implement predictive control policies The most important algorithms feature in an accompanying free online MATLAB toolbox which allows easy access to sample solutions Predictive Control for Linear and Hybrid Systems is an ideal reference for graduate postgraduate and advanced control practitioners interested in theory and or implementation aspects of predictive control

Learning-based Model Predictive Control with closed-loop guarantees Raffaele

Soloperto,2023-11-13 The performance of model predictive control MPC largely depends on the accuracy of the prediction model and of the constraints the system is subject to However obtaining an accurate knowledge of these elements might be expensive in terms of money and resources if at all possible In this thesis we develop novel learning based MPC frameworks that actively incentivize learning of the underlying system dynamics and of the constraints while ensuring recursive feasibility constraint satisfaction and performance bounds for the closed loop In the first part we focus on the case of inaccurate models and analyze learning based MPC schemes that include in addition to the primary cost a learning cost that aims at generating informative data by inducing excitation in the system In particular we first propose a nonlinear MPC framework that ensures desired performance bounds for the resulting closed loop and then we focus on linear systems subject to uncertain parameters and noisy output measurements In order to ensure that the desired learning phase occurs in closed loop operations we then propose an MPC framework that is able to guarantee closed loop learning of the controlled system In the last part of the thesis we investigate the scenario where the system is known but evolves in a partially unknown environment In such a setup we focus on a learning based MPC scheme that incentivizes safe exploration if and only if this might yield to a performance improvement

Design and Implementation of Model Predictive Control Algorithms for Small Satellite Three-axis Stabilization Chen, Xi,2011

Uncertainty in Mechanical Engineering Holger

Hanselka,Peter Groche,Roland Platz,2011-09-27 Selected peer reviewed papers from the 1st International Conference on Uncertainty in Mechanical Engineering ICUME 2011 November 14 15 2011 Darmstadt Germany

Model Predictive Control of Wind Energy Conversion Systems Venkata Yaramasu,Bin Wu,2016-11-23

Model Predictive Control of Wind Energy Conversion Systems addresses the predicative control strategy that has emerged as a promising digital control tool within

the field of power electronics variable speed motor drives and energy conversion systems The authors provide a comprehensive analysis on the model predictive control of power converters employed in a wide variety of variable speed wind energy conversion systems WECS The contents of this book includes an overview of wind energy system configurations power converters for variable speed WECS digital control techniques MPC modeling of power converters and wind generators for MPC design Other topics include the mapping of continuous time models to discrete time models by various exact approximate and quasi exact discretization methods modeling and control of wind turbine grid side two level and multilevel voltage source converters The authors also focus on the MPC of several power converter configurations for full variable speed permanent magnet synchronous generator based WECS squirrel cage induction generator based WECS and semi variable speed doubly fed induction generator based WECS Furthermore this book Analyzes a wide variety of practical WECS illustrating important concepts with case studies simulations and experimental results Provides a step by step design procedure for the development of predictive control schemes for various WECS configurations Describes continuous and discrete time modeling of wind generators and power converters weighting factor selection discretization methods and extrapolation techniques Presents useful material for other power electronic applications such as variable speed motor drives power quality conditioners electric vehicles photovoltaic energy systems distributed generation and high voltage direct current transmission Explores S Function Builder programming in MATLAB environment to implement various MPC strategies through the companion website Reflecting the latest technologies in the field Model Predictive Control of Wind Energy Conversion Systems is a valuable reference for academic researchers practicing engineers and other professionals It can also be used as a textbook for graduate level and advanced undergraduate courses *Moving Horizon Strategies for the Constrained Monitoring and Control of Nonlinear Discrete-time Systems* Christopher V. Rao,2000 **Predictive Control in Process Engineering** Robert Haber,Ruth Bars,Ulrich Schmitz,2012-09-19 Describing the principles and applications of single input single output and multivariable predictive control in a simple and lively manner this practical book discusses topics such as the handling of on off control nonlinearities and numerical problems It gives guidelines and methods for reducing the computational demand for real time applications With its many examples and several case studies incl injection molding machine and waste water treatment and industrial applications stripping column distillation column furnace this is invaluable reading for students and engineers who would wish to understand and apply predictive control in a wide variety of process engineering application areas **A New Method for Model Predictive Control Design and Its Application to an Industrial Process** Haralambos Sarimveis,1995 [Towards Autonomous Robotic Systems](#) Lyuba Alboul,Dana Damian,Jonathan M. Aitken,2016-06-24 This book constitutes the refereed proceedings of the 17th Annual Conference on Towards Autonomous Robotics TAROS 2016 held in Sheffield UK in June July 2016 The 23 revised full papers presented together with 15 short papers were carefully reviewed and selected from 56 submissions The overall program covers various

aspects of robotics including navigation planning sensing and perception flying and swarm robots ethics humanoid robotics human robot interaction and social robotics

Model Predictive Control Enabling Flexible Operation of Data Centers

Tianyou Shao, 2018-02-21 Master's Thesis from the year 2017 in the subject Engineering Power Engineering grade 2.0 RWTH Aachen University Institute for Automation of Complex Power Systems language English abstract To rise to the challenge of the growing number of distributed Renewable Energy Sources RES for grid integration Ancillary Service AS is increasingly crucial to maintaining the stability of power grid worldwide In recent years discussions about Data Centers DCs no longer limit to their energy efficiency Considering the rising rigid demand from ICT customer and the high energy demand of DC it is possible for DC to be one of Demand Response DR resources providing ASs in the smart grid This thesis presents an online energy aware scheduling algorithm based on Model Predictive Control MPC which realizes a proper adjustment of DC power demand enabling the flexible operation of DC The present work focuses on the identification and implementation of an MPC strategy which aims at a proper scheduling for DC which makes the total power consumption of DC flexible to track the reference signal in a DR context It is demonstrated how the combination and interaction of the components under DC architecture can be utilized to achieve the realizable potential of operational flexibility for AS Numerical simulation results have been carried out aimed at the later application in real pilot DCs Furthermore the capacity of resisting disturbance of this MPC approach has been discussed

AIChE Symposium Series American Institute of Chemical Engineers, 1997

Advanced Control in Computer Integrated Manufacturing Henry M. Morris, E. J. Kompass, Theodore Joseph Williams, 1987

Smart Cities Houbing Song, Ravi Srinivasan, Tamim Sookoor, Sabina Jeschke, 2017-06-21 Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world They open up significant opportunities in several areas such as economic growth health wellness energy efficiency and transportation to promote the sustainable development of cities This book provides the basics of smart cities and it examines the possible future trends of this technology Smart Cities Foundations Principles and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities Divided into three parts foundations principles and applications Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer It also covers smart city theory modeling and simulation and examines case studies of existing smart cities from all around the world In addition the book Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science engineering and technology of smart cities including system design system verification real time control and adaptation Internet of Things and test beds Covers applications of smart cities as they relate to smart transportation connected vehicle CV and Intelligent Transportation Systems ITS for improved mobility safety and environmental protection Smart Cities Foundations Principles and Applications

is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city related industries *Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes (DYCORD+ '92)* International Federation of Automatic Control,1993-04-13 In addition to the three main themes chemical reactors distillation columns and batch processes this volume also addresses some of the new trends in dynamics and control methodology such as model based predictive control new methods for identification of dynamic models nonlinear control theory and the application of neural networks to identification and control Provides a useful reference source of the major advances in the field **The Proceedings of the Third IEEE Conference on Control Applications, August 24th-26th, 1994, Venue, the University of Strathclyde, Glasgow, Scotland, UK** IEEE Control Systems Society,1994 **The Proceedings of the Third IEEE Conference on Control Applications** IEEE Control Systems Society,1994 Chemical Process Control-VI James Blake Rawlings,Babatunde Ayodeji Ogunnaike,John W. Eaton,2002 Electronic version of the proceedings and papers of the conference along with an ISO9660 file system with Rock Ridge attributes

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