

Model Predictive Control: Theory, Computation, and Design

2nd Edition

James B. Rawlings
David Q. Mayne
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Nob Hill Publishing

Model Predictive Control Theory Computation And Design

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Kalam,Antonio Pascoal,Manas Kumar
Bera**

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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.

Model Predictive Control Aris Daniilidis, Lars Grüne, Josef Haunschmied, Gernot Tragler, 2025-06-07 The book explores the field of model predictive control MPC. It reports on the latest developments in MPC, current applications, and presents various subfields of MPC. The book features topics such as uncertain and stochastic MPC, variants, learning, and neural network approaches, easy-to-use numerical implementations, as well as multi-agent systems and scheduling and coordination tasks. While MPC is rooted in engineering science, this book illustrates the potential of using MPC theory and methods in non-engineering sciences and applications such as economics, finance, and environmental sciences.

Optimization of Complex Systems: Theory, Models, Algorithms and Applications Hoai An Le Thi, Hoai Minh Le, Tao Pham Dinh, 2019-06-15 This book contains 112 papers selected from about 250 submissions to the 6th World Congress on Global Optimization WCGO 2019, which takes place on July 8-10, 2019, at the University of Lorraine, Metz, France. The book covers both theoretical and algorithmic aspects of Nonconvex Optimization, as well as its applications to modeling and solving decision problems in various domains. It is composed of 10 parts, each of which deals with either the theory and/or methods in a branch of optimization, such as Continuous optimization, DC Programming, and DCA, Discrete optimization, Network optimization, Multiobjective programming, Optimization under uncertainty, or models and optimization methods in a specific application area, including Data science, Economics, Finance, Energy, Water management, Engineering systems, Transportation, Logistics, Resource allocation, Production management. The researchers and practitioners working in Nonconvex Optimization and several application areas can find here many inspiring

ideas and useful tools techniques for their works *Recent Advances in Model Predictive Control* Timm Faulwasser,Matthias A. Müller,Karl Worthmann,2021-04-17 This book focuses on distributed and economic Model Predictive Control MPC with applications in different fields MPC is one of the most successful advanced control methodologies due to the simplicity of the basic idea measure the current state predict and optimize the future behavior of the plant to determine an input signal and repeat this procedure ad infinitum and its capability to deal with constrained nonlinear multi input multi output systems While the basic idea is simple the rigorous analysis of the MPC closed loop can be quite involved Here distributed means that either the computation is distributed to meet real time requirements for very large scale systems or that distributed agents act autonomously while being coupled via the constraints and or the control objective In the latter case communication is necessary to maintain feasibility or to recover system wide optimal performance The term economic refers to general control tasks and thus goes beyond the typically predominant control objective of set point stabilization Here recently developed concepts like strict dissipativity of optimal control problems or turnpike properties play a crucial role The book collects research and survey articles on recent ideas and it provides perspectives on current trends in nonlinear model predictive control Indeed the book is the outcome of a series of six workshops funded by the German Research Foundation DFG involving early stage career scientists from different countries and from leading European industry stakeholders Systems Theory in Data and Optimization Julian Berberich,Andrea Iannelli,Frank Allgöwer,2025-09-26 This book contains the proceedings of the Symposium on Systems Theory in Data and Optimization SysDO held in Stuttgart Germany from 30th September to 2nd October 2024 It addresses theoretical and practical research questions arising at the intersection of systems and control theory data and optimization The increasing prevalence of cyber physical systems sparks the need for new methods to integrate measured data and different forms of feedback especially optimization based feedback inside the decision making mechanism There are distinctive challenges that arise in this scenario such as the existence of different time scales the need to guarantee sufficient richness of the collected data and the effect of suboptimal decisions under uncertainty This book presents new methods and applications addressing these challenges This book is a valuable source on latest research findings spanning diverse topics including data driven and learning based control theory and applications of machine learning model predictive control and optimization Emerging Electronics and Automation Peter Han Joo Chong,Akhtar Kalam,Antonio Pascoal,Manas Kumar Bera,2022-11-09 This book constitutes peer reviewed proceedings of the International Conference on Emerging Electronics and Automation E2A 2021 The book presents new ideas research findings and novel techniques in the fields of sensors and instrumentation automation and control artificial intelligence MEMS sensors soft computing signal processing and communication It includes contributions received from both academia and industry The proceedings will be helpful for beginners as well as advanced researchers in the area of automation and other allied fields *Advanced Model Predictive Control for Autonomous Marine*

Vehicles Yang Shi,Chao Shen,Henglai Wei,Kunwu Zhang,2023-02-13 This book provides a comprehensive overview of marine control system design related to underwater robotics applications In particular it presents novel optimization based model predictive control strategies to solve control problems appearing in autonomous underwater vehicle applications These novel approaches bring unique features such as constraint handling prioritization between multiple design objectives optimal control performance and robustness against disturbances and uncertainties into the control system design They therefore form a more general framework to design marine control systems and can be widely applied Advanced Model Predictive Control for Autonomous Marine Vehicles balances theoretical rigor providing thorough analysis and developing provably correct design conditions and application perspectives addressing practical system constraints and implementation issues Starting with a fixed point positioning problem for a single vehicle and progressing to the trajectory tracking and path following problem of the vehicle and then to the coordination control of a large scale multi robot team this book addresses the motion control problems increasing their level of challenge step by step At each step related subproblems such as path planning thrust allocation collision avoidance and time constraints for real time implementation are also discussed with solutions In each chapter of this book compact and illustrative examples are provided to demonstrate the design and implementation procedures As a result this book is useful for both theoretical study and practical engineering design and the tools provided in the book are readily applicable for real world implementation

Model Predictive Control - Theory and Applications Constantin Voloşencu,2023-07-12 The book presents some recent specialized theoretical and practical works in the field of process control based on the model predictive control MPC method It includes seven chapters that present studies on the application of MPC in various technical processes such as the atmospheric plasma spray process permanent magnet synchronous motors monitoring of the pose of a walking person monitoring of the heat treatment process of raw materials discrete event processes control of passenger vehicles and natural gas sweetening processes Chapters include examples and case studies from researchers in the field This volume provides readers with new solutions and answers to questions related to the emerging applications of MPC and their implementation

Handbook of Model Predictive Control Saša V. Raković,William S. Levine,2018-09-01 Recent developments in model predictive control promise remarkable opportunities for designing multi input multi output control systems and improving the control of single input single output systems This volume provides a definitive survey of the latest model predictive control methods available to engineers and scientists today The initial set of chapters present various methods for managing uncertainty in systems including stochastic model predictive control With the advent of affordable and fast computation control engineers now need to think about using computationally intensive controls so the second part of this book addresses the solution of optimization problems in real time for model predictive control The theory and applications of control theory often influence each other so the last section of Handbook of Model Predictive Control rounds out the book with representative applications to automobiles healthcare

robotics and finance The chapters in this volume will be useful to working engineers scientists and mathematicians as well as students and faculty interested in the progression of control theory Future developments in MPC will no doubt build from concepts demonstrated in this book and anyone with an interest in MPC will find fruitful information and suggestions for additional reading

Model Predictive Control Eduardo F. Camacho, Carlos Bordons, José M. Maestre, 2026-01-01 Model Predictive Control MPC the classic textbook for students and practitioners seeking deep understanding of advanced control systems is now revised updated and reorganized in a streamlined third edition The authors renowned researchers in the field cover an extensive range of topics that embraces the basic and the advanced the theoretical and the applied The book offers advanced undergraduate and graduate students an accessible step by step approach that enables them progressively to grasp and apply the concepts they are studying For instructors this is an invaluable curriculum resource packed with examples and case studies The text features material on commercial MPC convolution models transfer functions state space models and constraints advanced topics robust and stochastic MPC and MPC for nonlinear hybrid large scale and distributed systems and applications a series of case studies in solar energy generation hospital stock control a pilot microgrid and copper processing along with exercises to help readers assess their progress many with full or partial solutions in a solutions manual downloadable by adopting instructors MATLAB programs to assist with the design aspects of the book and with reproducing some of the examples are available for readers to download Model Predictive Control third edition s distinctive strength is its real world relevance It is an essential tool for future engineers its focus on practical implementation bridging the gap between academic theory and industrial practice and supplemented by exploration of optimization and algorithm related aspects of MPC ensures a holistic treatment of the subject

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Studies on Linear and Nonlinear Model Predictive Control of Chemical Processes Keith Paul Fruzzetti, 1994

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Fundamental Process Control David M. Prett, Carlos E. García, 1988 Presents a unifying theoretical framework that includes real practical issues such as process constraints and model errors Modern process control methodologies are compared in light of this framework to allow the development of a new design methodology for controllers Written for control design experts and graduate level students Annotation copyrighted by Book News Inc Portland OR

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

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