



Lars Grüne
Jürgen Pannek

Nonlinear Model Predictive Control

Theory and Algorithms

Nonlinear Model Predictive Control Theory And Algorithms Communications And Control Engineering

**International Federation of Automatic
Control**

Nonlinear Model Predictive Control Theory And Algorithms Communications And Control Engineering:

Nonlinear Model Predictive Control Lars Grüne, Jürgen Pannek, 2016-11-09 This book offers readers a thorough and rigorous introduction to nonlinear model predictive control NMPC for discrete time and sampled data systems NMPC schemes with and without stabilizing terminal constraints are detailed and intuitive examples illustrate the performance of different NMPC variants NMPC is interpreted as an approximation of infinite horizon optimal control so that important properties like closed loop stability inverse optimality and suboptimality can be derived in a uniform manner These results are complemented by discussions of feasibility and robustness An introduction to nonlinear optimal control algorithms yields essential insights into how the nonlinear optimization routine the core of any nonlinear model predictive controller works Accompanying software in MATLAB and C downloadable from extras.springer.com together with an explanatory appendix in the book itself enables readers to perform computer experiments exploring the possibilities and limitations of NMPC The second edition has been substantially rewritten edited and updated to reflect the significant advances that have been made since the publication of its predecessor including a new chapter on economic NMPC relaxing the assumption that the running cost penalizes the distance to a pre defined equilibrium a new chapter on distributed NMPC discussing methods which facilitate the control of large scale systems by splitting up the optimization into smaller subproblems an extended discussion of stability and performance using approximate updates rather than full optimization replacement of the pivotal sufficient condition for stability without stabilizing terminal conditions with a weaker alternative and inclusion of an alternative and much simpler proof in the analysis and further variations and extensions in response to suggestions from readers of the first edition Though primarily aimed at academic researchers and practitioners working in control and optimization the text is self contained featuring background material on infinite horizon optimal control and Lyapunov stability theory that also makes it accessible for graduate students in control engineering and applied mathematics

On the Numerical Solution of Nonlinear and Hybrid Optimal Control Problems Matthias Rungger, 2012 Front cover Zusammenfassung Summary Introduction Literature Review and Contribution Solution Methods of Optimal Control Problems State of the Art of DP based Algorithms Results and Contribution Nonlinear Optimal Control Preliminaries Problem Introduction Continuity of the Value Function Sampled Data and Perturbation Analysis Sampled Data Optimal Control Perturbed Sampled Data Optimal Control Convergence Analysis Finite Approximation and Computation Finite Model Approximation and Perturbation Computational Complexity The Role of the Relaxation The Closed Loop System Summary Hybrid Optimal Control Problem Introduction The Hybrid Bellman Equation Hybrid Perturbed Sampled Data Analysis Perturbed Hybrid System Perturbed Sampled Data Model Perturbed Sampled Data Hybrid Optimal Control Convergence Analysis Finite Approximation Finite Model Finite Optimal Control Problem Computation of the Hybrid Finite Feedback Strategy The Closed Loop System Summary Numerical Experiments Inverted Pendulum on a Cart Adaptive Cruise Control of a SMART Car Summary Conclusion Summary Outlook

Appendix Notation References Back cover [Nonlinear Model Predictive Control](#) Lalo Magni, Davide Martino Raimondo, Frank Allgöwer, 2009-05-18 Over the past few years significant progress has been achieved in the field of nonlinear model predictive control NMPC also referred to as receding horizon control or moving horizon control More than 250 papers have been published in 2006 in ISI Journals With this book we want to bring together the contributions of a diverse group of internationally well recognized researchers and industrial practitioners to critically assess the current status of the NMPC field and to discuss future directions and needs The book consists of selected papers presented at the International Workshop on Assessment an Future Directions of Nonlinear Model Predictive Control that took place from September 5 to 9 2008 in Pavia Italy **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 **ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol I** Suresh Chandra Satapathy, P. S. Avadhani, Siba K. Udgata, Sadasivuni Lakshminarayana, 2013-10-19 This volume contains 88 papers presented at CSI 2013 48th Annual Convention of Computer Society of India with the theme ICT and Critical Infrastructure The convention was held during 13th 15th December 2013 at Hotel Novotel Varun Beach Visakhapatnam and hosted by Computer Society of India Vishakhapatnam Chapter in association with Vishakhapatnam Steel Plant the flagship company of RINL India This volume contains papers mainly focused on Computational Intelligence and its applications Mobile Communications and social Networking Grid Computing Cloud Computing Virtual and Scalable Applications Project Management and Quality Systems and Emerging Technologies in hardware and Software **Energy Efficiency and Renewable Energy Handbook** D. Yogi Goswami, Frank Kreith, 2015-09-09 For the Movers Shakers and Policy Makers in

Energy Engineering and Related Industries The latest version of a bestselling reference Energy Efficiency and Renewable Energy Handbook Second Edition covers the foremost trends and technologies in energy engineering today This new edition contains the latest material on energy planning and policy **with Coping with Complexity: Model Reduction and Data Analysis** Alexander N. Gorban, Dirk Roose, 2010-10-21 This volume contains the extended version of selected talks given at the international research workshop Coping with Complexity Model Reduction and Data Analysis Ambleside UK August 31 September 4 2009 The book is deliberately broad in scope and aims at promoting new ideas and methodological perspectives The topics of the chapters range from theoretical analysis of complex and multiscale mathematical models to applications in e.g. fluid dynamics and chemical kinetics **Advances in Production Management Systems. Initiatives for a Sustainable World** Irenilza Nääs, Oduvaldo Vendrametto, João Mendes Reis, Rodrigo Franco Gonçalves, Márcia Terra Silva, Gregor von Cieminski, Dimitris Kiritsis, 2017-03-15 This book constitutes the refereed post conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2016 held in Iguassu Falls Brazil in September 2016 The 117 revised full papers were carefully reviewed and selected from 164 submissions They are organized in the following topical sections computational intelligence in production management intelligent manufacturing systems knowledge based PLM modelling of business and operational processes virtual digital and smart factory flexible sustainable supply chains large scale supply chains sustainable manufacturing quality in production management collaborative systems innovation and collaborative networks agrifood supply chains production economics lean manufacturing cyber physical technology deployments in smart manufacturing systems smart manufacturing system characterization knowledge management in production systems service oriented architecture for smart manufacturing systems advances in cleaner production sustainable production management and operations management in engineer to order manufacturing

Instrument Engineers' Handbook, Volume Two Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from academia and their from the trenches advice has been repeatedly tested in real life applications Expanded coverage includes descriptions of overseas manufacturer's products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective Bela G. Liptak speaks on Post Oil Energy Technology on the AT&T Tech Channel

Distributed Model Predictive Control Aswin N. Venkat, 2006 **Non-linear Predictive Control** Basil Kouvaritakis, Mark

Cannon,2001-10-26 The advantage of model predictive control is that it can take systematic account of constraints thereby allowing processes to operate at the limits of achievable performance Engineers in academia industry and government from the US and Europe explain how the linear version can be adapted and applied to the nonlinear conditions that characterize the dynamics of most real manufacturing plants They survey theoretical and practical trends describe some specific theories and demonstrate their practical application derive strategies that provide appropriate assurance of closed loop stability and discuss practical implementation Annotation copyrighted by Book News Inc Portland OR *Proceedings TENCON '93*

Baozong Yuan,1993 **AIChE Symposium Series** American Institute of Chemical Engineers,1997 *Chemical Process Control-V* Jeffrey C. Kantor,Carlos E. García,Brice Carnahan,1997 **Integrated Systems Engineering** International Federation of Automatic Control,1995 A postprint volume that contains all the papers presented at the September 1994 IFAC conference including the three plenary papers the papers of the case study session and summaries of the three discussion sessions The impact of computer science and knowledge based decision support systems as tools common to all fields of systems engineering is particularly emphasized Several major fields of systems engineering are covered namely large scale systems computer aided systems analysis and design intelligent systems man machine systems manufacturing and robotics transportation automation in commercial aviation industrial systems engineering and several others No index Annotation copyright by Book News Inc Portland OR *Interdisciplinary Research in Technology and Management* Satyajit

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Henry M. Morris,E. J. Kompass,Theodore Joseph Williams,1987 **Modelling and Simulation 1991** European Simulation Multiconference,1991 **Proceedings of the 33rd IEEE Conference on Decision and Control ,1994** Journal of Guidance, Control, and Dynamics ,2007

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