

nonlinear model predictive control in matlab

Nonlinear Model Predictive Control Nonlinear Model Predictive Control

**Lalo Magni, Davide Martino
Raimondo, Frank Allgöwer**



Nonlinear Model Predictive Control Nonlinear Model Predictive Control:

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 and Future Directions of Nonlinear Model Predictive Control that took place from September 5 to 9 2008 in Pavia Italy **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 **Explicit Nonlinear Model Predictive Control** Alexandra Grancharova, Tor Arne Johansen, 2012-03-22 Nonlinear Model Predictive Control NMPC has become the accepted methodology to solve complex control problems related to process industries The main motivation behind explicit NMPC is that an explicit state feedback law avoids the need for executing a numerical optimization algorithm in real time The benefits

of an explicit solution in addition to the efficient on line computations include also verifiability of the implementation and the possibility to design embedded control systems with low software and hardware complexity This book considers the multi parametric Nonlinear Programming mp NLP approaches to explicit approximate NMPC of constrained nonlinear systems developed by the authors as well as their applications to various NMPC problem formulations and several case studies The following types of nonlinear systems are considered resulting in different NMPC problem formulations Nonlinear systems described by first principles models and nonlinear systems described by black box models Nonlinear systems with continuous control inputs and nonlinear systems with quantized control inputs Nonlinear systems without uncertainty and nonlinear systems with uncertainties polyhedral description of uncertainty and stochastic description of uncertainty Nonlinear systems consisting of interconnected nonlinear sub systems The proposed mp NLP approaches are illustrated with applications to several case studies which are taken from diverse areas such as automotive mechatronics compressor control combustion plant control reactor control pH maintaining system control cart and spring system control and diving computers

Assessment and Future Directions of Nonlinear Model Predictive Control Rolf Findeisen, Frank Allgöwer, Lorenz Biegler, 2007-09-08 The past three decades have seen rapid development in the area of model predictive control with respect to both theoretical and application aspects Over these 30 years model predictive control for linear systems has been widely applied especially in the area of process control However today's applications often require driving the process over a wide region and close to the boundaries of operability while satisfying constraints and achieving near optimal performance Consequently the application of linear control methods does not always lead to satisfactory performance and here nonlinear methods must be employed This is one of the reasons why nonlinear model predictive control NMPC has enjoyed significant attention over the past years with a number of recent advances on both the theoretical and application frontier Additionally the widespread availability and steadily increasing power of today's computers as well as the development of specially tailored numerical solution methods for NMPC bring the practical applicability of NMPC within reach even for very fast systems This has led to a series of new exciting developments along with new challenges in the area of NMPC

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researchers and practitioners in the area of control engineering and control theory It is also suited for postgraduate students as the book contains several overview articles that give a tutorial introduction into the various aspects of nonlinear model predictive control including systems theory computations modeling and applications Nonlinear Model Predictive Control Frank Allgöwer,Alex Zheng,2000 **Nonlinear Model Predictive Control** Frank Allgöwer,Alex Zheng,2012-12-06 During the past decade model predictive control MPC also referred to as receding horizon control or moving horizon control has become the preferred control strategy for quite a number of industrial processes There have been many significant advances in this area over the past years one of the most important ones being its extension to nonlinear systems This book gives an up to date assessment of the current state of the art in the new field of nonlinear model predictive control NMPC The main topic areas that appear to be of central importance for NMPC are covered namely receding horizon control theory modeling for NMPC computational aspects of on line optimization and application issues The book consists of selected papers presented at the International Symposium on Nonlinear Model Predictive Control Assessment and Future Directions which took place from June 3 to 5 1998 in Ascona Switzerland The book is geared towards researchers and practitioners in the area of control engineering and control theory It is also suited for postgraduate students as the book contains several overview articles that give a tutorial introduction into the various aspects of nonlinear model predictive control including systems theory computations modeling and applications **Nonlinear Model Predictive Control** Lalo Magni,Davide Martino Raimondo,Frank Allgöwer,2009-05-25 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 *Optimality in Nonlinear Model Predictive Control* Bei Hu,2002 Explicit Nonlinear Model Predictive Control Alexandra Grancharova,Tor Arne Johansen,2012-03-23 Nonlinear Model Predictive Control NMPC has become the accepted methodology to solve complex control problems related to process industries The main motivation behind explicit NMPC is that an explicit state feedback law avoids the need for executing a numerical optimization algorithm in real time The benefits of an explicit solution in addition to the efficient on line computations include also verifiability of the implementation and the possibility to design embedded control systems with low software and hardware complexity This book considers the multi parametric Nonlinear Programming mp NLP approaches to explicit approximate NMPC of constrained nonlinear systems developed by the authors as well as their applications to various NMPC problem formulations and several case studies The following types of nonlinear systems are considered resulting in different NMPC problem formulations Nonlinear systems

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