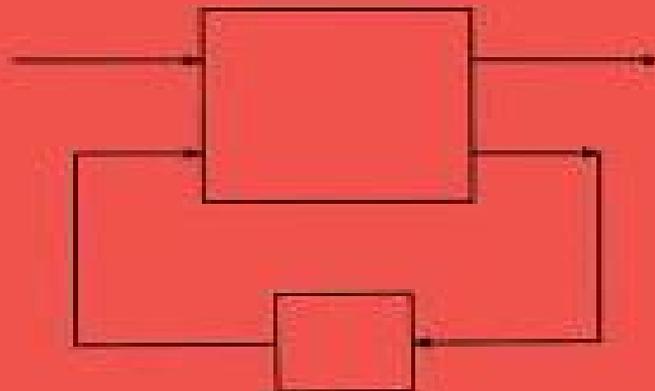


Lecture Notes in Control and Information Sciences 238

Nicola Elia and Munther A. Dahleh

Computational Methods for Controller Design



Springer

Computational Methods For Controller Design

Huangqi Zhang



Computational Methods For Controller Design:

Computational Methods for Controller Design Nicola Elia, Munther A. Dahleh, 2014-03-12 The monograph is concerned with computational methods for controller design that allow several typical performance specifications to be directly imposed on a system The general approach proposed is applicable to a large class of problems it is based on posing multi objective control problems as convex infinite dimensional optimization problems Particularly interesting and useful are the following methodological aspects of the approach proposed in the monograph These are A unified way to pose the problems as generalized linear programs Duality theory results that characterize the duality relationship for the generalized linear programs arising from multi objective control problems A set of tools to analyse the convergence properties of the computational method based on the duality relationship The complete analysis and extension of methods developed for the L1 problem for several important multi objective problems This book is primarily concerned with multi objective control problems as convex optimizations on the space of the closed loop maps However the issue of deriving exact or approximate solutions is similar when the problems are posed as dynamic games in state space Therefore the problem of finding the state feedback controller that minimizes the worst case peak to peak amplification of the closed loop system is considered in the last chapter The objective of this work is to propose generic computation methods that can be used to solve a wide range of multi objective control problems Infinite dimensional convex optimization problems are considered giving the book a broader focus than other competitive titles in this field This non exclusive approach will have a wide appeal for scientists and graduate students They will be able to determine and analyse readily implementable computational methods to derive exact or approximate solutions Key words for the catalogue index Controller design multi objective control computational methods linear programming robust control USPs Generic computational methods are proposed these can be used to solve a wide range of multi objective control problems A new computational method for the L1 problem is suggested which is superior to existing approaches and is based on the solution of a mixed objective problem The reader will greatly benefit from the comprehensive treatment of this topic

Computational Methods for Optimal Design and Control J. Borggaard, John Burns, Scott Schreck, 1998-10-23 This volume contains the proceedings of the Second International Workshop on Optimal Design and Control held in Arlington Virginia 30 September 3 October 1997 The First Workshop was held in Blacksburg Virginia in 1994 The proceedings of that meeting also appeared in the Birkhauser series on Progress in Systems and Control Theory and may be obtained through Birkhauser These workshops were sponsored by the Air Force Office of Scientific Research through the Center for Optimal Design and Control CODAC at Virginia Tech The meetings provided a forum for the exchange of new ideas and were designed to bring together diverse viewpoints and to highlight new applications The primary goal of the workshops was to assess the current status of research and to analyze future directions in optimization based design and control The present volume contains the technical papers presented at the Second Workshop More than 65

participants from 6 countries attended the meeting and contributed to its success It has long been recognized that many modern optimal design problems are best viewed as variational and optimal control problems Indeed the famous problem of determining the body of revolution that produces a minimum drag nose shape in hypersonic flow was first proposed by Newton in 1686 Optimal control approaches to design can provide theoretical and computational insight into these problems This volume contains a number of papers which deal with computational aspects of optimal control

Computational Methods and Experimental Measurements XIX & Earthquake Resistant Engineering Structures XII P. De Wilde, G. M. Carlomagno, 2019-08-14 A collection of research originating from WIT Conferences on Computational Methods and Earthquake Resistant Engineering Structures In its 19th year the CMEM conference continues to provide highest quality research which forms part 1 of this book Part 2 includes leading research as presented at the 12th edition of the ERES conference

Advanced Computational Methods in Energy, Power, Electric Vehicles, and Their Integration Kang Li, Yusheng Xue, Shumei Cui, Qun Niu, Zhile Yang, Patrick Luk, 2017-09-01 The three volume set CCIS 761 CCIS 762 and CCIS 763 constitutes the thoroughly refereed proceedings of the International Conference on Life System Modeling and Simulation LSMS 2017 and of the International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2017 held in Nanjing China in September 2017 The 208 revised full papers presented were carefully reviewed and selected from over 625 submissions The papers of this volume are organized in topical sections on Biomedical Signal Processing Computational Methods in Organism Modeling Medical Apparatus and Clinical Applications Bionics Control Methods Algorithms and Apparatus Modeling and Simulation of Life Systems Data Driven Analysis Image and Video Processing Advanced Fuzzy and Neural Network Theory and Algorithms Advanced Evolutionary Methods and Applications Advanced Machine Learning Methods and Applications Intelligent Modeling Monitoring and Control of Complex Nonlinear Systems Advanced Methods for Networked Systems Control and Analysis of Transportation Systems Advanced Sliding Mode Control and Applications Advanced Analysis of New Materials and Devices Computational Intelligence in Utilization of Clean and Renewable Energy Resources Intelligent Methods for Energy Saving and Pollution Reduction Intelligent Methods in Developing Electric Vehicles Engines and Equipment Intelligent Computing and Control in Power Systems Modeling Simulation and Control in Smart Grid and Microgrid Optimization Methods Computational Methods for Sustainable Environment

Computational Methods in Stochastic Dynamics Manolis Papadrakakis, George Stefanou, Vissarion Papadopoulos, 2012-09-26 The considerable influence of inherent uncertainties on structural behavior has led the engineering community to recognize the importance of a stochastic approach to structural problems Issues related to uncertainty quantification and its influence on the reliability of the computational models are continuously gaining in significance In particular the problems of dynamic response analysis and reliability assessment of structures with uncertain system and excitation parameters have been the subject of continuous research over the last two decades as a result of the increasing

availability of powerful computing resources and technology This book is a follow up of a previous book with the same subject ISBN 978 90 481 9986 0 and focuses on advanced computational methods and software tools which can highly assist in tackling complex problems in stochastic dynamic seismic analysis and design of structures The selected chapters are authored by some of the most active scholars in their respective areas and represent some of the most recent developments in this field The book consists of 21 chapters which can be grouped into several thematic topics including dynamic analysis of stochastic systems reliability based design structural control and health monitoring model updating system identification wave propagation in random media seismic fragility analysis and damage assessment This edited book is primarily intended for researchers and post graduate students who are familiar with the fundamentals and wish to study or to advance the state of the art on a particular topic in the field of computational stochastic structural dynamics Nevertheless practicing engineers could benefit as well from it as most code provisions tend to incorporate probabilistic concepts in the analysis and design of structures

A Computational Method for H^∞ Controller Design in the Frequency Domain B. A. Frankpitt, C. A. Berenstein, J. S. Baras, 1994 *Computational Techniques and Applications, CTAC*, 1997 *Scientific and Technical Aerospace Reports*, 1990 Principles of Dynamic Programming: Basic analytic and computational methods Robert Edward Larson, J. L. Casti, 1978 **Applied Mechanics Reviews**, 1978 Computational Techniques for Robust and Fixed-Structure Controller Design Emmanuel Collins, Florida agricultural and mechanical univ tallahassee, 1998 In practice discrepancies between real physical systems and their mathematical models are unavoidable These uncertainties in the mathematical model often result in severe degradation in control system performance and sometimes even instability One of the main objectives of feedback control theory is to design controllers that are stable and guarantee certain performance objectives in the face of these uncertainties While robust control theory has reached a certain maturity in recent years much remains to be done as far as numerical algorithms for practical robust controller synthesis is concerned In practice because of throughput limitations on control processors the order and sometimes additionally the structure of the controller may have to be constrained a priori Traditional controller reduction schemes do not guarantee robustness or optimality of the resulting controllers The goal of this research is to develop algorithms for the analysis of closed loop robust stability and the synthesis of fixed structure and robust controllers Smart Structures and Materials, 1993 **Computer Aided Design in Control Systems** International Federation of Automatic Control, 1992 Hardbound The tone of the Proceedings is set by the three Plenary papers and the remaining papers are arranged under the coherent themes of environment computational methods modelling and simulation design methods and applications The papers in the Proceedings represent the state of the art in the rapidly changing technology of computer aided design in control systems They clearly show how that technology is absorbing the most recent developments in computer science and adapting them to its requirements The reader will find that the emphasis in the technology is shifting towards open environments with object oriented databases and modern graphical user

interfaces supporting a whole range of tools for modelling analysis and design SIAM Journal on Control and Optimization
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