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Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control



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Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control Boris S Mordukhovich, Hector J Sussmann, 1996-06-20 Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control Boris S. Mordukhovich, Hector J. Sussmann, 1996-06-20 This IMA Volume in Mathematics and its Applications NONSMOOTH ANALYSIS AND GEOMETRIC METHODS IN DETERMINISTIC OPTIMAL CONTROL is based on the proceedings of a workshop that was an integral part of the 1992 93 IMA program on Control Theory The purpose of this workshop was to concentrate on powerful mathematical techniques that have been de veloped in deterministic optimal control theory after the basic foundations of the theory existence theorems maximum principle dynamic program ming sufficiency theorems for sufficiently smooth fields of extremals were laid out in the 1960s These advanced techniques make it possible to derive much more detailed information about the structure of solutions than could be obtained in the past and they support new algorithmic approaches to the calculation of such solutions We thank Boris S Mordukhovich and Hector I Sussmann for organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made the workshop possible A vner Friedman Willard Miller Jr v PREFACE This volume contains the proceedings of the workshop on Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control held at the Institute for Mathematics and its Applications on February 8 17 1993 during a special year devoted to Control Theory and its Applications The workshop whose organizing committee consisted of V J urdjevic B S Mordukhovich R T Rockafellar and H J Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control Boris S. Mordukhovich, Hector I. Sussmann, 2012-12-06 This IMA Volume in Mathematics and its Applications NONSMOOTH ANALYSIS AND GEOMETRIC METHODS IN DETERMINISTIC OPTIMAL CONTROL is based on the proceedings of a workshop that was an integral part of the 1992 93 IMA program on Control Theory The purpose of this workshop was to concentrate on powerful mathematical techniques that have been de veloped in deterministic optimal control theory after the basic foundations of the theory existence theorems maximum principle dynamic program ming sufficiency theorems for sufficiently smooth fields of extremals were laid out in the 1960s These advanced techniques make it possible to derive much more detailed information about the structure of solutions than could be obtained in the past and they support new algorithmic approaches to the calculation of such solutions We thank Boris S Mordukhovich and Hector I Sussmann for organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made the workshop possible A vner Friedman Willard Miller Jr v PREFACE This volume contains the proceedings of the workshop on Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control held at the Institute for Mathematics and its Applications on February 8 17 1993 during a special year devoted to Control Theory and its Applications The workshop whose organizing committee consisted of

V J urdjevic B S Mordukhovich R T Rockafellar and H J Geometric Optimal Control Heinz Schättler, Urszula Ledzewicz, 2012-06-26 This book gives a comprehensive treatment of the fundamental necessary and sufficient conditions for optimality for finite dimensional deterministic optimal control problems. The emphasis is on the geometric aspects of the theory and on illustrating how these methods can be used to solve optimal control problems It provides tools and techniques that go well beyond standard procedures and can be used to obtain a full understanding of the global structure of solutions for the underlying problem The text includes a large number and variety of fully worked out examples that range from the classical problem of minimum surfaces of revolution to cancer treatment for novel therapy approaches All these examples in one way or the other illustrate the power of geometric techniques and methods. The versatile text contains material on different levels ranging from the introductory and elementary to the advanced Parts of the text can be viewed as a comprehensive textbook for both advanced undergraduate and all level graduate courses on optimal control in both mathematics and engineering departments The text moves smoothly from the more introductory topics to those parts that are in a monograph style were advanced topics are presented While the presentation is mathematically rigorous it is carried out in a tutorial style that makes the text accessible to a wide audience of researchers and students from various fields including the mathematical sciences and engineering Heinz Sch ttler is an Associate Professor at Washington University in St Louis in the Department of Electrical and Systems Engineering Urszula Ledzewicz is a Distinguished Research Professor at Southern Illinois University Edwardsville in the Department of Mathematics and Statistics **Scale Space and Variational Methods** in Computer Vision Fiorella Sgallari, Almerico Murli, Nikos Paragios, 2007-07-23 This book constitutes the refereed proceedings of the First International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2007 emanated from the joint edition of the 4th International Workshop on Variational Geometric and Level Set Methods in Computer Vision VLSM 2007 and the 6th International Conference on Scale Space and PDE Methods in Computer Vision Scale Space 2007 held in Ischia Italy May June 2007 Numerical Methods for Polymeric Systems Stuart G. Whittington, 2012-12-06 Polymers occur in many different states and their physical properties are strongly correlated with their conformations. The theoretical investigation of the conformational properties of polymers is a difficult task and numerical methods play an important role in this field This book contains contributions from a workshop on numerical methods for polymeric systems held at the IMA in May 1996 which brought together chemists physicists mathematicians computer scientists and statisticians with a common interest in numerical methods The two major approaches used in the field are molecular dynamics and Monte Carlo methods and the book includes reviews of both approaches as well as applications to particular polymeric systems The molecular dynamics approach solves the Newtonian equations of motion of the polymer giving direct information about the polymer dynamics as well as about static properties The Monte Carlo approaches discussed in this book all involve sampling along a Markov chain defined on the configuration space of the

system An important feature of the book is the treatment of Monte Carlo methods including umbrella sampling and multiple Markov chain methods which are useful for strongly interacting systems such as polymers at low temperatures and in compact phases The book is of interest to workers in polymer statistical mechanics and also to a wider audience interested in numerical methods and their application in polymeric systems Structured Adaptive Mesh Refinement (SAMR) Grid Methods Scott B. Baden, Nikos P. Chrisochoides, Dennis B. Gannon, Michael L. Norman, 2012-12-06 Structured adaptive mesh refinement SAMR methods have matured over the past 20 years and are now the method of choice for certain difficult problems such as compressible flow SAMR presents difficult technical challenges both in terms of the numerical techniques involved and the complexity of the programming effort especially on parallel computers In order to gain insight into managing these difficulties much research effort has been directed at mesh generation parallel computation and improvements in accuracy aimed primarily at refinement interfaces A major stumbling block in this endeavor is that many of these techniques entail substantial amounts of problem specific detail Standardization is highly unlikely except within narrowly defined problem domains The papers presented in this collection are based on talks given at the Workshop on Structured Adaptive Mesh Refinement Grid Methods held at the Institute for Mathematics and its Applications University of Minnesota on March 12 13 1997 They describe research to improve the general understanding of the application of SAMR to practical problems identify issues critical to efficient and effective implementation on high performance computers stimulate the development of a community code repository for software including benchmarks to assist in the evaluation of software and compiler technologies The ten chapters of this volume have been divided into two parts reflecting two major issues in the topic I programming complexity of SAMR algorithms and II applicability and numerical challenges of SAMR methods Part I presents three programming environments and two libraries that address the concerns of efficient execution and reduced software development times of SAMR applications Part II describes an overview of applications that can benefit from SAMR methods ranging from crack propagation and industrial boilers to Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems Eusebius Doedel, Laurette S. Tuckerman, 2012-12-06 The Institute for Mathematics and its Applications IMA devoted its 1997 1998 program to Emerging Applications of Dynamical Systems Dynamical systems theory and related numerical algorithms provide powerful tools for studying the solution behavior of differential equations and mappings In the past 25 years computational methods have been developed for calculating fixed points limit cycles and bifurcation points A remaining challenge is to develop robust methods for calculating more complicated objects such as higher codimension bifurcations of fixed points periodic orbits and connecting orbits as well as the calcuation of invariant manifolds Another challenge is to extend the applicability of algorithms to the very large systems that result from discretizing partial differential equations Even the calculation of steady states and their linear stability can be prohibitively expensive for large systems e g 10 3 10 6 equations if attempted by simple direct methods Several of the papers in this volume treat

computational methods for low and high dimensional systems and in some cases their incorporation into software packages A few papers treat fundamental theoretical problems including smooth factorization of matrices self organized criticality and unfolding of singular heteroclinic cycles Other papers treat applications of dynamical systems computations in various scientific fields such as biology chemical engineering fluid mechanics and mechanical engineering Iterative Methods Gene Golub, Anne Greenbaum, Mitchell Luskin, 2012-12-06 This IMA Volume in Mathematics and its Applications RECENT ADVANCES IN ITERATIVE METHODS is based on the proceedings of a workshop that was an integral part of the 1991 92 IMA program on Applied Linear Algebra Large systems of matrix equations arise frequently in applications and they have the property that they are sparse and or structured The purpose of this workshop was to bring together researchers in numerical analysis and various application areas to discuss where such problems arise and possible meth ods of solution The last two days of the meeting were a celebration dedicated to Gene Golub on the occasion of his sixtieth birthday with the program arranged by Jack Dongarra and Paul van Dooren We are grateful to Richard Brualdi George Cybenko Alan George Gene Golub Mitchell Luskin and Paul Van Dooren for planning and implementing the year long program We especially thank Gene Golub Anne Greenbaum and Mitchell Luskin for organizing this workshop and editing the proceed ings The financial support of the National Science Foundation and the Min nesota Supercomputer Institute made the workshop possible A vner Friedman Willard Miller Jr xi PREFACE The solution of very large linear algebra problems is an integral part of many scientific computations Stochastic Dynamic Macroeconomics Gang Gong, Willi Semmler, 2006-01-19 This is a book on stochastic dynamic macroeconomics from a Keynesian perspective It shows that including Keynesian features in intertemporal models considerably contributes to resolve major puzzles arising in the context of the Dynamic General Equilibrium DGE model It also demonstrates that including microeconomic intertemporal behavior of economic agents in macroeconomics is not inconsistent with Keynesian economics **Planning Algorithms** Steven M. LaValle, 2006-05-29 Planning algorithms are impacting technical disciplines and industries around the world including robotics computer aided design manufacturing computer graphics aerospace applications drug design and protein folding This coherent and comprehensive book unifies material from several sources including robotics control theory artificial intelligence and algorithms The treatment is centered on robot motion planning but integrates material on planning in discrete spaces A major part of the book is devoted to planning under uncertainty including decision theory Markov decision processes and information spaces which are the configuration spaces of all sensor based planning problems The last part of the book delves into planning under differential constraints that arise when automating the motions of virtually any mechanical system This text and reference is intended for students engineers and researchers in robotics artificial intelligence and control theory as well as computer graphics algorithms and computational biology Large-Scale Optimization with Applications Lorenz T. Biegler, 1997-08-07 A three week workshop on Large Scale Optimization was held at

the IMA from July 10 to July 28 1995 as part of its summer program These workshops brought together some of the world s leading experts in the areas of optimization inverse problems optimal design optimal control and molecular structures The content of these volumes represent a majority of the presentations at the three workshops. The presentations and the subsequent articles published here are intended to be useful and accessible to both the mathematical programmers and those working in the applications Perhaps somewhat optimistically the hope is that the workshops and the proceedings will also initiate some long term research projects and impart to new researchers the excitement vitality and importance of this kind of cooperation to the applications and to applied mathematics Nonlinear Stochastic PDEs Tadahisa Funaki, Wojbor Woyczynski, 2012-12-06 This IMA Volume in Mathematics and its Applications NONLINEAR STOCHASTIC PDEs HYDRODYNAMIC LIMIT AND BURGERS TURBULENCE is based on the proceedings of the period of concentration on Stochas tic Methods for Nonlinear PDEs which was an integral part of the 1993 94 IMA program on Emerging Applications of Probability We thank Tadahisa Funaki and Wojbor A Woyczynski for organizing this meeting and for editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made this workshop possible A vner Friedman Willard Miller Jr xiii PREFACE A workshop on Nonlinear Stochastic Partial Differential Equations was held during the week of March 21 at the Institute for Mathematics and Its Applications at the University of Minnesota It was part of the Special Year on Emerging Applications of Probability program put together by an organizing committee chaired by J Michael Steele The selection of topics reflected personal interests of the organizers with two areas of emphasis the hydrodynamic limit problems and Burgers turbulence and related models The talks and the papers appearing in this volume reflect a number of research directions that are currently pursued in these areas Control Max D. Gunzburger, 2012-12-06 The articles in this volume cover recent work in the area of flow control from the point of view of both engineers and mathematicians These writings are especially timely as they coincide with the emergence of the role of mathematics and systematic engineering analysis in flow control and optimization Recently this role has significantly expanded to the point where now sophisticated mathematical and computational tools are being increasingly applied to the control and optimization of fluid flows These articles document some important work that has gone on to influence the practical everyday design of flows moreover they represent the state of the art in the formulation analysis and computation of flow control problems This volume will be of interest to both applied mathematicians and to engineers

Robust Control Theory Bruce A. Francis, Pramod P. Khargonekar, 2012-12-06 Robust control originates with the need to cope with systems with modeling uncertainty There have been several mathematical techniques developed for robust control system analysis The articles in this volume cover all of the major research directions in the field **Systems and Control**Theory for Power Systems Joe H. Chow, Petar V. Kokotovic, Robert J. Thomas, 1995-02-24 The articles in this volume cover power system model reduction transient and voltage stability nonlinear control robust stability computation and optimization

and have been written by some of the leading researchers in these areas This book should be of interest to power and control engineers and applied mathematicians Stochastic Models in Geosystems Stanislav A. Molchanov, Wojbor A. Woyczynski, 2012-12-06 This IMA Volume in Mathematics and its Applications STOCHASTIC MODELS IN GEOSYSTEMS is based on the proceedings of a workshop with the same title and was an integral part of the 1993 94 IMA program on Emerging Applications of Probability We would like to thank Stanislav A Molchanov and Wojbor A Woyczynski for their hard work in organizing this meeting and in edit ing the proceedings We also take this opportunity to thank the National Science Foundation the Office of N aval Research the Army Research Of fice and the National Security Agency whose financial support made this workshop possible A vner Friedman Willard Miller Jr v PREFACE A workshop on Stochastic Models in Geosystems was held during the week of May 16 1994 at the Institute for Mathematics and Its Applications at the University of Minnesota It was part of the Special Year on Emerging Applications of Prob ability program put together by an organiz ing committee chaired by I Michael Steele The invited speakers represented a broad interdisciplinary spectrum including mathematics statistics physics geophysics astrophysics atmospheric physics fluid mechanics seismology and oceanography The com mon underlying theme was stochastic modeling of geophysical phenomena and papers appearing in this volume reflect a number of research directions that are currently pursued in these areas Adaptive Control, Filtering, and Signal *Processing* K.J. Aström, G.C. Goodwin, P.R. Kumar, 2012-12-06 The area of adaptive systems which encompasses recursive identification adaptive control filtering and signal processing has been one of the most active areas of the past decade Since adaptive controllers are fundamentally nonlinear controllers which are applied to nominally linear possibly stochastic and time varying systems their theoretical analysis is usually very difficult Nevertheless over the past decade much fundamental progress has been made on some key questions concerning their stability convergence performance and robustness Moreover adaptive controllers have been successfully employed in numerous practical applications and have even entered Decision Making Under Uncertainty Claude Greengard, Andrzej Ruszczynski, 2012-12-06 In the ideal the marketplace world major decisions would be made based on complete and reliable information available to the decision maker We live in a world of uncertainties and decisions must be made from information which may be incomplete and may contain uncertainty The key mathematical question addressed in this volume is how to make decision in the presence of quantifiable uncertainty The volume contains articles on model problems of decision making process in the energy and power industry when the available information is noisy and or incomplete The major tools used in studying these problems are mathematical modeling and optimization techniques especially stochastic optimization These articles are meant to provide an insight into this rapidly developing field which lies in the intersection of applied statistics probability operations research and economic theory It is hoped that the present volume will provide entry to newcomers into the field and stimulation for further research Fractals in Multimedia Michael F. Barnsley, Dietmar Saupe, Edward R. Vrscay, 2012-12-06 This IMA Volume in

Mathematics and its Applications FRACTALS IN MULTIMEDIA is a result of a very successful three day minisymposium on the same title The event was an integral part of the IMA annual program on Mathematics in Multimedia 2000 2001 We would like to thank Michael F Barnsley Department of Mathematics and Statistics University of Melbourne Di etmar Saupe Institut fUr Informatik UniversiUit Leipzig and Edward R Vrscay Department of Applied Mathematics University of Waterloo for their excellent work as organizers of the meeting and for editing the proceedings We take this opportunity to thank the National Science Foundation for their support of the IMA Series Editors Douglas N Arnold Director of the IMA Fadil Santosa Deputy Director of the IMA v PREFACE This volume grew out of a meeting on Fractals in Multimedia held at the IMA in January 2001 The meeting was an exciting and intense one focused on fractal image compression analysis and synthesis iterated function systems and fractals in education The central concerns of the meeting were to establish within these areas where we are now and to develop a vision for the future

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