

Ugo Boscain
Benedetto Piccoli

Optimal Syntheses for Control Systems on 2-D Manifolds



 Springer

Optimal Syntheses For Control Systems On 2d Manifolds

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Optimal Syntheses For Control Systems On 2d Manifolds:

Optimal Syntheses for Control Systems on 2-D Manifolds Ugo Boscain, Benedetto Piccoli, 2003-11-26 This book is devoted to optimal syntheses in control theory and focuses on minimum time on 2 D manifolds The text outlines examples of applicability introduces geometric methods in control theory and analyzes single input systems on 2 D manifolds including classifications of optimal syntheses and feedbacks their singularities extremals projection and minimum time singularities Various extensions and applications are also illustrated

Geometric Control Theory and Sub-Riemannian Geometry Gianna Stefani, Ugo Boscain, Jean-Paul Gauthier, Andrey Sarychev, Mario Sigalotti, 2014-06-05 Honoring Andrei Agrachev's 60th birthday this volume presents recent advances in the interaction between Geometric Control Theory and sub Riemannian geometry On the one hand Geometric Control Theory used the differential geometric and Lie algebraic language for studying controllability motion planning stabilizability and optimality for control systems The geometric approach turned out to be fruitful in applications to robotics vision modeling mathematical physics etc On the other hand Riemannian geometry and its generalizations such as sub Riemannian Finslerian geometry etc have been actively adopting methods developed in the scope of geometric control Application of these methods has led to important results regarding geometry of sub Riemannian spaces regularity of sub Riemannian distances properties of the group of diffeomorphisms of sub Riemannian manifolds local geometry and equivalence of distributions and sub Riemannian structures regularity of the Hausdorff volume etc

Taming Heterogeneity and Complexity of Embedded Control Françoise Lamnabhi-Lagarrigue, Antonio Loria, Elena Panteley, Salah Laghrouche, 2013-05-21 This book gathers together a selection of papers presented at the Joint CTS HYCON Workshop on Nonlinear and Hybrid Control held at the Paris Sorbonne France 10-12 July 2006 The main objective of the Workshop was to promote the exchange of ideas and experiences and reinforce scientific contacts in the large multidisciplinary area of the control of nonlinear and hybrid systems

Nonlinear Synthesis C.I. Byrnes, A.B. Kurzhanski, 2013-03-09 In its broadest sense nonlinear synthesis involves in fact the synthesis of sometimes so sophisticated or complex control strategies with the aim of prescribing or at least influencing the evolution of complex nonlinear systems Nonlinear synthesis requires the development of methodologies for modeling complex systems for the analysis of nonlinear models and for the systematic design of control schemes or feedback laws which can achieve a wide variety of prescribed objectives The modeling analysis and control of complex systems in the face of uncertainty form one of the major components of the current research program in the Department of Systems and Decision Sciences SDS at the International Institute for Applied Systems Analysis IIASA In June 1989 a IIASA workshop on Nonlinear Synthesis sponsored by SDS was held in Sopron Hungary We are proud to present this volume as the proceedings of this workshop a workshop attended by prominent researchers in nonlinear systems from both the East and the West Since the promotion and encouragement of scientific cooperation between researchers in the East and in the West is one of the goals at IIASA we feel

the Sopron Conference on Nonlinear Synthesis was very successful Moreover we were especially pleased by the impressive new advances presented at the workshop which in this volume are now part of the conference record

SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics, 2009

Discrete and Continuous Dynamical Systems, 2008

Phase Portraits of Control Dynamical Systems A.G. Butkovskiy, 2012-12-06

Differential Equations and Dynamical Systems, 2002

Theory of Chattering Control Michail I. Zelikin, Vladimir F. Borisov, 2012-12-06

The common experience in solving control problems shows that optimal control as a function of time proves to be piecewise analytic having a finite number of jumps called switches on any finite time interval Meanwhile there exists an old example proposed by A T Fuller 1961 in which optimal control has an infinite number of switches on a finite time interval This phenomenon is called chattering It has become increasingly clear that chattering is widespread This book is devoted to its exploration Chattering obstructs the direct use of Pontryagin's maximum principle because of the lack of a nonzero length interval with a continuous control function That is why the common experience appears misleading It is the hidden symmetry of Fuller's problem that allows the explicit solution Namely there exists a one parameter group which respects the optimal trajectories of the problem When published in 1961 Fuller's example incited curiosity but it was considered only interesting and soon was forgotten The second wave of attention to chattering was raised about 12 years later when several other examples with optimal chattering trajectories were found All these examples were two dimensional with the one parameter group of symmetries

Control and Dynamic Systems V51: Robust Control System Techniques and Applications C.T. Leonides, 2012-12-02

Control and Dynamic Systems Advances in Theory and Application Volume 51 Robust Control System Techniques and Applications Part 2 of 2 discusses system robustness techniques This volume presents a comprehensive treatment of robust system techniques in nonlinear linear and multilinear interval systems It also covers techniques for dealing with system disturbances system modeling approximations and parameter uncertainties This volume ends by reviewing robustness techniques for systems with structured state space uncertainty This volume will be of great use as a reference source for mechanical and electrical engineers

Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-20

Nonlinear Control Systems Design 1992 M. Fliess, 2016-07-07 This volume represents most aspects of the rich and growing field of nonlinear control These proceedings contain 78 papers including six plenary lectures striking a balance between theory and applications Subjects covered include feedback stabilization nonlinear and adaptive control of electromechanical systems nonholonomic systems Generalized state space systems algebraic computing in nonlinear systems theory decoupling linearization and model matching and robust control are also covered

Technology for Large Space Systems, 1989

Applied Mechanics Reviews, 1979

Soviet Journal of Computer and Systems

Sciences ,1988-07 **Mathematical Reviews** ,2006 **International Aerospace Abstracts** ,1995 *Soviet Science
and Technology* 1987 ,1988 Soviet Science and Technology ,1987

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