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Yannian Liu

Control Design and Analysis for Underactuated Robotic Systems

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Bruno Siciliano, Kimon P. Valavanis



Control Design And Analysis For Underactuated Robotic Systems:

Control Design and Analysis for Underactuated Robotic Systems Xin Xin, Yannian Liu, 2014-01-03 The last two decades have witnessed considerable progress in the study of underactuated robotic systems URSs Control Design and Analysis for Underactuated Robotic Systems presents a unified treatment of control design and analysis for a class of URSs which include systems with multiple degree of freedom and or with underactuation degree two It presents novel notions features design techniques and strictly global motion analysis results for these systems These new materials are shown to be vital in studying the control design and stability analysis of URSs Control Design and Analysis for Underactuated Robotic Systems includes the modelling control design and analysis presented in a systematic way particularly for the following examples 1 directly and remotely driven Acrobots 1 Pendubot 1 rotational pendulum 1 counter weighted Acrobot 2 link underactuated robot with flexible elbow joint 1 variable length pendulum 1 3 link gymnastic robot with passive first joint 1 n link planar robot with passive first joint 1 n link planar robot with passive single joint double or two parallel pendulums on a cart 1 3 link planar robots with underactuation degree two 2 link free flying robot The theoretical developments are validated by experimental results for the remotely driven Acrobot and the rotational pendulum Control Design and Analysis for Underactuated Robotic Systems is intended for advanced undergraduate and graduate students and researchers in the area of control systems mechanical and robotics systems nonlinear systems and oscillation This text will not only enable the reader to gain a better understanding of the power and fundamental limitations of linear and nonlinear control theory for the control design and analysis for these URSs but also inspire the reader to address the challenges of more complex URSs

Industrial and Robotic Systems Eusebio E. Hernandez, Sajjad Keshtkar, S. Ivvan Valdez, 2020-05-13 This volume gathers the latest advances innovations and applications in the field of robotics engineering as presented by leading international researchers and engineers at the Latin American Symposium on Industrial and Robotic Systems LASIRS held in Tampico Mexico on October November 30 01 2019 The contributions cover all major areas of R D and innovation in simulation optimization and control of robotics such as design and optimization of robots using numerical and metaheuristic methods autonomous and control systems industrial compliance solutions numerical simulations for manipulators and robots metaheuristics applied to robotics problems Industry 4 0 control and automation in petrochemical processes simulation and control in aerospace and aeronautics and education in robotics The conference represented a unique platform to share the latest research and developments in simulation control and optimization of robotic systems and to promote cooperation among specialists in machine and mechanism area

Control Systems Benchmarks José M. Maestre, Carlos Ocampo-Martinez, 2025-05-29 Control Systems Benchmarks helps control engineers researchers and students to evaluate and compare control system performance across a range of critical applications by offering a collection of real world benchmarks The book brings together challenges from diverse fields like power grids robotics automotive systems and industrial

processes giving readers practical tools to test their control methods in realistic settings Organized into two blocks the book first tackles process control covering dynamic and large scale problems such as load frequency control in power grids and wastewater treatment plant automation The second block explores robotics and vehicles focusing on areas like fault tolerant control of quadrotors and lateral stability in electric vehicles Each benchmark presents complex engineering challenges allowing readers to experiment with various control approaches This book is set apart by the consistent structure of its chapters which enables readers to adapt benchmarks for their own systems easily Each chapter includes a brief overview of the benchmark highlighting its significance and technical hurdles a detailed problem description including engineering goals and constraints experimental setup performance metrics and data collection methods downloadable materials and instructions for running simulations or accessing physical platforms and a discussion of existing solutions case studies and open challenges to inspire further research Whether you re a practitioner an academic researcher or a student eager to deepen your understanding of control systems Control Systems Benchmarks offers practical insights and valuable resources to advance your work

Applied Fractional Calculus in Identification and Control Utkal Mehta,Kishore Bingi,Sahaj Saxena,2022-09-10 The book investigates the fractional calculus based approaches and their benefits to adopting in complex real time areas Another objective is to provide initial solutions for new areas where fractional theory has yet to verify the expertise The book focuses on the latest scientific interest and illustrates the basic idea of general fractional calculus with MATLAB codes This book is ideal for researchers working on fractional calculus theory both in simulation and hardware Researchers from academia and industry working or starting research in applied fractional calculus methods will find the book most useful The scope of this book covers most of the theoretical and practical studies on linear and nonlinear systems using fractional order integro differential operators

Emerging Technologies in Computing Mahdi H. Miraz,Peter S. Excell,Andrew Ware,Safeeullah Soomro,Maaruf Ali,2020-09-28 This book constitutes the refereed conference proceedings of the Third International Conference on Emerging Technologies in Computing iCEtiC 2020 held in London UK in August 2020 Due to VOVID 19 pandemic the conference was held virtually The 25 revised full papers were reviewed and selected from 65 submissions and are organized in topical sections covering blockchain and cloud computing security wireless sensor networks and IoT AI big data and data analytics emerging technologies in engineering education and sustainable development

Progress in System and Robot Analysis and Control Design Spyros G. Tzafestas,1999-05-14 The fields of control and robotics are now at an advanced level of maturity both in theory and practice Numerous systems are used effectively in industrial production and other sectors of modern life This volume contains a well balanced collection of over fifty papers focusing on analysis and design problems The current trends and advances in the fields are reflected Topics covered include system analysis identification and stability optimal adaptive robust and QFT controller design design and application of driving simulators industrial robots and telemanipulators mobile service and legged robots virtual reality in

robotics The book brings together important original results derived from a variety of academic and engineering environments Also it serves as a timely reference volume for the researcher and practitioner Robotic Manipulators and Vehicles Gerasimos Rigatos,Krishna Busawon,2018-05-24 This monograph addresses problems of nonlinear control estimation and filtering for robotic manipulators multi degree of freedom rigid link robots flexible link robots underactuated redundant and cooperating manipulators and closed chain robotic mechanisms and nonlinear control estimation and filtering for autonomous robotic vehicles operating on the ground in the air and on and under water independently and in cooperating groups The book is a thorough treatment of the entire range of applications of robotic manipulators and autonomous vehicles The nonlinear control and estimation methods it develops can be used generically being suitable for a wide range of robotic systems Such methods can improve robustness precision and fault tolerance in robotic manipulators and vehicles at the same time as enabling the reliable functioning of these systems under variable conditions model uncertainty and external perturbations **Advanced Mechanics in Robotic Systems** Nestor Eduardo Nava Rodríguez,2011-07-22 Humans have always been fascinated with the concept of artificial life and the construction of machines that look and behave like people As the field of robotics evolves it demands continuous development of successful systems with high performance characteristics for practical applications Advanced Mechanics in Robotic Systems illustrates original and ambitious mechanical designs and techniques for developing new robot prototypes with successful mechanical operational skills Case studies are focused on projects in mechatronics that have high growth expectations humanoid robots robotics hands mobile robots parallel manipulators and human centred robots A good control strategy requires good mechanical design so a chapter has also been devoted to the description of suitable methods for control architecture design Readers of Advanced Mechanics in Robotic Systems will discover novel designs for relevant applications in robotic fields that will be of particular interest to academic and industry based researchers *Mechanical Science and Engineering III* Yan Dong Wang,2013-06-27 Selected peer reviewed papers from the 2013 3rd International Conference on Mechanical Science and Engineering ICMSE 2013 March 1 3 2013 Hong Kong China *Analysis and Control of Underactuated Mechanical Systems* Amal Choukchou-Braham,Brahim Cherki,Mohamed Djemaï,Krishna Busawon,2013-11-18 This monograph provides readers with tools for the analysis and control of systems with fewer control inputs than degrees of freedom to be controlled i e underactuated systems The text deals with the consequences of a lack of a general theory that would allow methodical treatment of such systems and the ad hoc approach to control design that often results imposing a level of organization whenever the latter is lacking The authors take as their starting point the construction of a graphical characterization or control flow diagram reflecting the transmission of generalized forces through the degrees of freedom Underactuated systems are classified according to the three main structures by which this is found to happen chain tree and isolated vertex and control design procedures proposed The procedure is applied to several well known examples of underactuated systems acrobot pendubot Tora system

ball and beam inertia wheel and robotic arm with elastic joint The text is illustrated with MATLABsup sup Simulink simulations that demonstrate the effectiveness of the methods detailed ppReaders interested in aircraft vehicle control or various forms of walking robot will be able to learn from iUnderactuated Mechanical Systems **Journal of Dynamic Systems, Measurement, and Control** ,2004 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality **1995 IEEE Conference on Control Applications** IEEE Control Systems Society,1995 Journal of Guidance, Control, and Dynamics ,2009 **Proceedings of the ... ASME Design Engineering Technical Conferences** ,2006 **Control Problems in Robotics and Automation** Bruno Siciliano,Kimon P. Valavanis,1998-01-20 Focusing on the important control problems in state of the art robotics and automation this volume features invited papers from a workshop held at CDC San Diego California As well as looking at current problems it aims to identify and discuss challenging issues that are yet to be solved but which will be vital to future research directions The many topics covered include automatic control distributed multi agent control multirobots dexterous hands flexible manipulators walking robots free floating systems nonholonomic robots sensor fusion fuzzy control virtual reality visual servoing and task synchronization Control Problems in Robotics and Automation will be of interest to all researchers scientists and graduate students who wish to broaden their knowledge in robotics and automation and prepare themselves to address and resolve the control problems that will be faced in this field as we enter the twenty first century *Proceedings of the ... SICE Annual Conference* Keisoku Jidō Seigyo Gakkai (Japan). Gakujutsu Kōenkai,1997 **Machine Tool Technology, Mechatronics and Information Engineering** Zhong Min Wang,Dong Fang Yang,Kun Yang,Liang Yu Guo,Jian Ming Tan,2014-09-22 Selected peer reviewed papers from the 2014 International Conference on Machine Tool Technology and Mechatronics Engineering ICMTTME 2014 June 22 23 2014 Guilin Guangxi China **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,2004 *Experiments in Cooperative Manipulation of Flexible Objects* David W. Meer,Stanford University. Department of Aeronautics and Astronautics,1994 **Robust Control Design 2003** Sergio Bittanti,Patrizio Colaneri,2004

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