

Zhijun Li · Chenguang Yang · Liping Fan

Advanced Control of Wheeled Inverted Pendulum Systems

 Springer

Advanced Control Of Wheeled Inverted Pendulum Systems

Yan Bai

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Advanced Control of Wheeled Inverted Pendulum Systems Zhijun Li,Chenguang Yang,Liping Fan,2012-07-13
Advanced Control of Wheeled Inverted Pendulum Systems is an orderly presentation of recent ideas for overcoming the complications inherent in the control of wheeled inverted pendulum WIP systems in the presence of uncertain dynamics nonholonomic kinematic constraints as well as underactuated configurations The text leads the reader in a theoretical exploration of problems in kinematics dynamics modeling advanced control design techniques and trajectory generation for WIPs An important concern is how to deal with various uncertainties associated with the nominal model WIPs being characterized by unstable balance and unmodelled dynamics and being subject to time varying external disturbances for which accurate models are hard to come by The book is self contained supplying the reader with everything from mathematical preliminaries and the basic Lagrange Euler based derivation of dynamics equations to various advanced motion control and force control approaches as well as trajectory generation method Although primarily intended for researchers in robotic control Advanced Control of Wheeled Inverted Pendulum Systems will also be useful reading for graduate students studying nonlinear systems more generally *Fractional Order Control and Synchronization of Chaotic Systems* Ahmad Taher Azar,Sundarapandian Vaidyanathan,Adel Ouannas,2017-02-27 The book reports on the latest advances in and applications of fractional order control and synchronization of chaotic systems explaining the concepts involved in a clear matter of fact style It consists of 30 original contributions written by eminent scientists and active researchers in the field that address theories methods and applications in a number of research areas related to fractional order control and synchronization of chaotic systems such as fractional chaotic systems hyperchaotic systems complex systems fractional order discrete chaotic systems chaos control chaos synchronization jerk circuits fractional chaotic systems with hidden attractors neural network fuzzy logic controllers behavioral modeling robust and adaptive control sliding mode control different types of synchronization circuit realization of chaotic systems etc In addition to providing readers extensive information on chaos fundamentals fractional calculus fractional differential equations fractional control and stability the book also discusses key applications of fractional order chaotic systems as well as multidisciplinary solutions developed via control modeling As such it offers the perfect reference guide for graduate students researchers and practitioners in the areas of fractional order control systems and fractional order chaotic systems Advances in Soft Computing Ildar Batyrshin,Alexander Gelbukh,Grigori Sidorov,2021-10-20 The two volume set LNAI 13067 and 13068 constitutes the proceedings of the 20th Mexican International Conference on Artificial Intelligence MICA 2021 held in Mexico City Mexico in October 2021 The total of 58 papers presented in these two volumes was carefully reviewed and selected from 129 submissions The first volume Advances in Computational Intelligence contains 30 papers structured into three sections Machine and Deep Learning Image Processing and Pattern Recognition Evolutionary and Metaheuristic Algorithms The second volume Advances in Soft

Computing contains 28 papers structured into two sections Natural Language Processing Intelligent Applications and Robotics

Fuzzy Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-02-22 There are a myriad of mathematical problems that cannot be solved using traditional methods The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties Fuzzy Systems Concepts Methodologies Tools and Applications is a comprehensive reference source on the latest scholarly research and developments in fuzzy rule based methods and examines both theoretical foundations and real world utilization of these logic sets Featuring a range of extensive coverage across innovative topics such as fuzzy logic rule based systems and fuzzy analysis this is an essential publication for scientists doctors engineers physicians and researchers interested in emerging perspectives and uses of fuzzy systems in various sectors

13th Chaotic Modeling and Simulation International Conference Christos H. Skiadas, Yiannis Dimotikalis, 2021-12-14 Gathering the proceedings of the 13th CHAOS2020 International Conference this book highlights recent developments in nonlinear dynamical and complex systems The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas methods and techniques in the field of Nonlinear Dynamics Chaos Fractals and their applications in General Science and the Engineering Sciences The respective chapters address key methods empirical data and computer techniques as well as major theoretical advances in the applied nonlinear field Beyond showcasing the state of the art the book will help academic and industrial researchers alike apply chaotic theory in their studies

Proceedings of the 10th National Technical Seminar on Underwater System Technology 2018 Zainah Md Zain, Hamzah Ahmad, Dwi Pebrianti, Mahfuzah Mustafa, Nor Rul Hasma Abdullah, Rosdiyana Samad, Maziyah Mat Noh, 2019-02-08 This book presents cutting edge research papers in the field of Underwater System Technology in Malaysia and Asia in general The topics covered include intelligent robotics novel sensor technologies control algorithms acoustic signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols The book showcases some of the latest technologies and applications developed to facilitate local marine exploration and exploitation It also addresses related topics concerning the Sustainable Development Goals SDG outlined by the United Nations

Trends, Paradigms, and Advances in Mechatronics Engineering Mellal, Mohamed Arezki, 2022-11-18 Most modern systems involve various engineering disciplines Mechatronic systems are designed to be dependable and efficient however mechatronics engineering faces multiple challenges at the design and exploitation stages It is essential for engineers to be aware of these challenges and remain up to date with the emerging research in the mechatronics engineering field Trends Paradigms and Advances in Mechatronics Engineering presents the latest advances and applications of mechatronics It highlights the recent challenges in the field and facilitates understanding of the subject Covering topics such as the construction industry design optimization and low cost fabrication this premier reference source is a crucial resource for engineers computer scientists construction managers students and

educators of higher education librarians researchers and academicians

Lecture Notes in Data Engineering, Computational Intelligence, and Decision-Making, Volume 1 Sergii Babichev, Volodymyr Lytvynenko, 2024-12-26 This book addresses contemporary challenges in artificial and computational intelligence particularly focusing on decision making systems It explores current trends in computer science including the collection analysis and processing of information The advancement of modern information and computer technologies for data analysis and processing in data mining and machine learning is highlighted showcasing their role in enhancing the efficiency of information processing by reducing time and increasing accuracy The book comprises 37 scientific papers presenting cutting edge research in data mining machine learning and decision making It is categorized into three sections 1 Analysis and modeling of hybrid systems and processes 14 papers 2 Theoretical and applied aspects of decision making systems 7 papers 3 Data engineering computational intelligence and inductive modeling 16 papers This book is designed for scientists and developers specializing in data mining machine learning and decision making systems

Innovation in Electrical Power Engineering, Communication, and Computing Technology Renu Sharma, Manohar Mishra, Janmenjoy Nayak, Bighnaraj Naik, Danilo Pelusi, 2020-02-21 This book features selected high quality papers from the International Conference on Innovation in Electrical Power Engineering Communication and Computing Technology IEPCCT 2019 held at Siksha O Anusandhan Deemed to be University Bhubaneswar India on 13 14 December 2019 Presenting innovations in power communication and computing it covers topics such as mini micro smart and future power grids power system economics energy storage systems intelligent control power converters improving power quality signal processing sensors and actuators image video processing high performance data mining algorithms advances in deep learning and optimization methods

Automation 2021: Recent Achievements in Automation, Robotics and Measurement Techniques Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2021-04-29 This book contains 38 papers authored by both scientists and practitioners focused on an interdisciplinary approach to the development of cyber physical systems Recently our civilization has been facing one of the most severe challenges in modern history The COVID 19 pandemic devastated the global economy and significantly disrupted numerous areas of economic activity Only radical increase of efficiency and versatility of industrial production with further limitation of human involvement paralleled by the decrease of environmental burden will enable us to cope with such challenges We hope that the presented book provides input to the solution of at least some problems brought about by this challenge This approach relies on the development of measuring techniques robotic and mechatronic systems industrial automation numerical modeling and simulation as well as application of artificial intelligence techniques required by the transformation leading to Industry 4 0

Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems Lin Zhang, Xiao Song, Yunjie Wu, 2016-09-21 This four volume set CCIS 643 644 645 646 constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi Conference AsiaSim

SCS AutumnSim 2016 held in Beijing China in October 2016 The 265 revised full papers presented were carefully reviewed and selected from 651 submissions The papers in this third volume of the set are organized in topical sections on Cloud technologies in simulation applications fractional calculus with applications and simulations modeling and simulation for energy environment and climate SBA virtual prototyping engineering technology simulation and Big Data Research EU, 2015-02 **Advanced Robotics**, 1997 **Mechatronics and Information Technology** Qing Kai Han, Kazuhiko Takahashi, Chang Hyun Oh, Zhong Luo, 2011-12-22 Selected peer reviewed papers from the 2011 International Conference on Mechatronics and Information Technology ICMIT 2011 August 16 19 2011 Shenyang China **Annual Report of Tokyo University of Agriculture and Technology** Tōkyō Nōkō Daigaku, 1994 **Proceedings of the ... IEEE International Conference on Control Applications**, 1996 Proceedings of 1995 IEEE International Conference on Robotics and Automation, May 21-27, 1995, Nagoya, Aichi, Japan IEEE Robotics and Automation Society, 1995 *Proceedings of the ... IEEE Intelligent Vehicles Symposium*, 2003 **Proceedings of the ... SICE Annual Conference** Keisoku Jidō Seigyo Gakkai (Japan). Gakujutsu Kōenkai, 1999 Computer & Control Abstracts, 1996

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