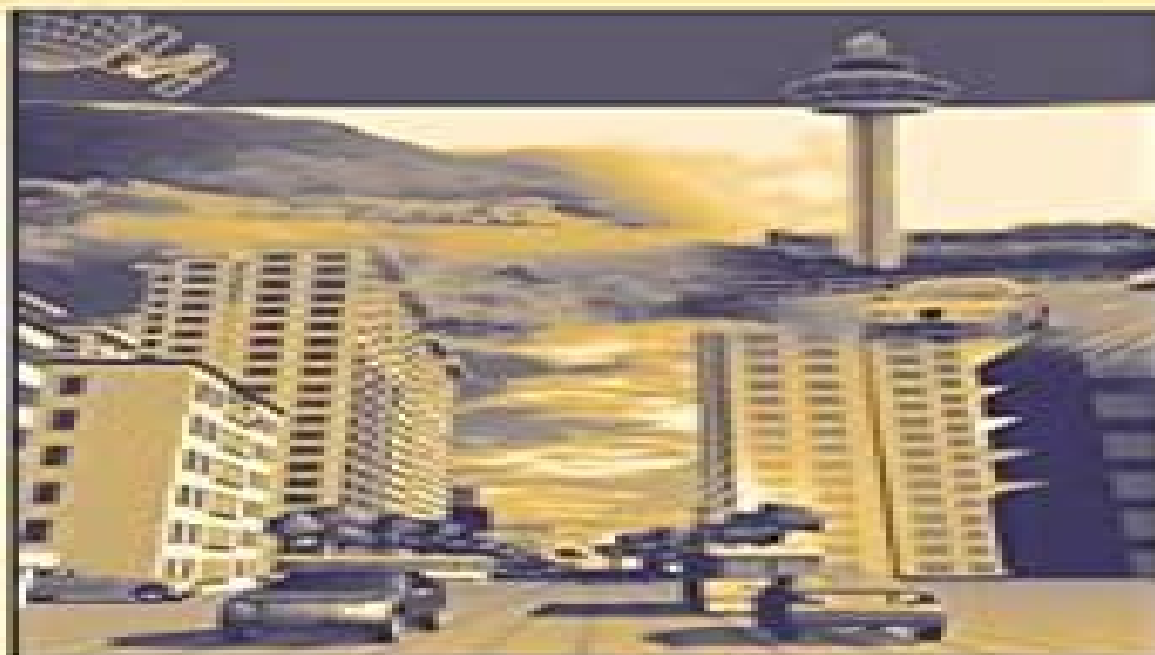


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Autonomous Mobile Robots

Sensing, Control, Decision Making and Applications



edited by

Shuzhi Sam Ge

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Autonomous Mobile Robots Sensing Control Decision Making And Applications Automation And Control Engineering

Frank L. Lewis, Shuzhi Sam Ge



Autonomous Mobile Robots Sensing Control Decision Making And Applications Automation And Control Engineering:

Autonomous Mobile Robots Frank L. Lewis, Shuzhi Sam Ge, 2018-10-03 It has long been the goal of engineers to develop tools that enhance our ability to do work increase our quality of life or perform tasks that are either beyond our ability too hazardous or too tedious to be left to human efforts Autonomous mobile robots are the culmination of decades of research and development and their potential is seemingly unlimited Roadmap to the Future Serving as the first comprehensive reference on this interdisciplinary technology Autonomous Mobile Robots Sensing Control Decision Making and Applications authoritatively addresses the theoretical technical and practical aspects of the field The book examines in detail the key components that form an autonomous mobile robot from sensors and sensor fusion to modeling and control map building and path planning and decision making and autonomy and to the final integration of these components for diversified applications Trusted Guidance A duo of accomplished experts leads a team of renowned international researchers and professionals who provide detailed technical reviews and the latest solutions to a variety of important problems They share hard won insight into the practical implementation and integration issues involved in developing autonomous and open robotic systems along with in depth examples current and future applications and extensive illustrations For anyone involved in researching designing or deploying autonomous robotic systems Autonomous Mobile Robots is the perfect resource

Reinforcement Learning and Dynamic Programming Using Function Approximators Lucian Busoniu, Robert Babuska, Bart De Schutter, Damien Ernst, 2017-07-28 From household appliances to applications in robotics engineered systems involving complex dynamics can only be as effective as the algorithms that control them While Dynamic Programming DP has provided researchers with a way to optimally solve decision and control problems involving complex dynamic systems its practical value was limited by algorithms that lacked the capacity to scale up to realistic problems However in recent years dramatic developments in Reinforcement Learning RL the model free counterpart of DP changed our understanding of what is possible Those developments led to the creation of reliable methods that can be applied even when a mathematical model of the system is unavailable allowing researchers to solve challenging control problems in engineering as well as in a variety of other disciplines including economics medicine and artificial intelligence Reinforcement Learning and Dynamic Programming Using Function Approximators provides a comprehensive and unparalleled exploration of the field of RL and DP With a focus on continuous variable problems this seminal text details essential developments that have substantially altered the field over the past decade In its pages pioneering experts provide a concise introduction to classical RL and DP followed by an extensive presentation of the state of the art and novel methods in RL and DP with approximation Combining algorithm development with theoretical guarantees they elaborate on their work with illustrative examples and insightful comparisons Three individual chapters are dedicated to representative algorithms from each of the major classes of techniques value

iteration policy iteration and policy search The features and performance of these algorithms are highlighted in extensive experimental studies on a range of control applications The recent development of applications involving complex systems has led to a surge of interest in RL and DP methods and the subsequent need for a quality resource on the subject For graduate students and others new to the field this book offers a thorough introduction to both the basics and emerging methods And for those researchers and practitioners working in the fields of optimal and adaptive control machine learning artificial intelligence and operations research this resource offers a combination of practical algorithms theoretical analysis and comprehensive examples that they will be able to adapt and apply to their own work Access the authors website at www.dsc.tudelft.nl/rlbook for additional material including computer code used in the studies and information concerning new developments Lyapunov-Based Control of Robotic Systems Aman Behal, Warren Dixon, Darren M. Dawson, Bin

Xian, 2009-12-17 Lyapunov Based Control of Robotic Systems describes nonlinear control design solutions for problems that arise from robots required to interact with and manipulate their environments Since most practical scenarios require the design of nonlinear controllers to work around uncertainty and measurement related issues the authors use Lyapunov's direct

Intelligent Diagnosis and Prognosis of Industrial Networked Systems Chee Khiang Pang, Frank L. Lewis, Tong Heng Lee, Zhao Yang Dong, 2017-07-28 In an era of intense competition where plant operating efficiencies must be maximized downtime due to machinery failure has become more costly To cut operating costs and increase revenues industries have an urgent need to predict fault progression and remaining lifespan of industrial machines processes and systems An engineer who mounts an acoustic sensor onto a spindle motor wants to know when the ball bearings will wear out without having to halt the ongoing milling processes A scientist working on sensor networks wants to know which sensors are redundant and can be pruned off to save operational and computational overheads These scenarios illustrate a need for new and unified perspectives in system analysis and design for engineering applications Intelligent Diagnosis and Prognosis of Industrial Networked Systems proposes linear mathematical tool sets that can be applied to realistic engineering systems The book offers an overview of the fundamentals of vectors matrices and linear systems theory required for intelligent diagnosis and prognosis of industrial networked systems Building on this theory it then develops automated mathematical machineries and formal decision software tools for real world applications The book includes portable tool sets for many industrial applications including Forecasting machine tool wear in industrial cutting machines Reduction of sensors and features for industrial fault detection and isolation FDI Identification of critical resonant modes in mechatronic systems for system design of R D Probabilistic small signal stability in large scale interconnected power systems Discrete event command and control for military applications The book also proposes future directions for intelligent diagnosis and prognosis in energy efficient manufacturing life cycle assessment and systems of systems architecture Written in a concise and accessible style it presents tools that are mathematically rigorous but not involved Bridging academia research and industry this reference supplies the

know how for engineers and managers making decisions about equipment maintenance as well as researchers and students in the field *Multi-Sensor Data Fusion with MATLAB* Jitendra R. Raol, 2009-12-16 Using MATLAB examples wherever possible Multi Sensor Data Fusion with MATLAB explores the three levels of multi sensor data fusion MSDF kinematic level fusion including the theory of DF fuzzy logic and decision fusion and pixel and feature level image fusion The authors elucidate DF strategies algorithms and performance evaluation mainly *Intelligent Freight Transportation* Petros A. Ioannou, 2008-03-24 Increasing capacity at ports and goods movement in the supply chain in general while also satisfying environmental economic political labor union and other constraints is arguably the greatest challenge of modern transportation With space at a premium and costs through the roof it is increasingly obvious that the traditional solutions are

Linear Control Theory Shankar P. Bhattacharyya, Aniruddha Datta, Lee H. Keel, 2018-10-03 Successfully classroom tested at the graduate level Linear Control Theory Structure Robustness and Optimization covers three major areas of control engineering PID control robust control and optimal control It provides balanced coverage of elegant mathematical theory and useful engineering oriented results The first part of the book develops results relating to the design of PID and first order controllers for continuous and discrete time linear systems with possible delays The second section deals with the robust stability and performance of systems under parametric and unstructured uncertainty This section describes several elegant and sharp results such as Kharitonov's theorem and its extensions the edge theorem and the mapping theorem Focusing on the optimal control of linear systems the third part discusses the standard theories of the linear quadratic regulator H_∞ and l_1 optimal control and associated results Written by recognized leaders in the field this book explains how control theory can be applied to the design of real world systems It shows that the techniques of three term controllers along with the results on robust and optimal control are invaluable to developing and solving research problems in many areas of engineering

SME Mining Engineering Handbook, Third Edition Peter Darling, Society for Mining, Metallurgy, and Exploration (U.S.), 2011 This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as the handbook of choice for today's practicing mining engineer It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals Virtually all of the information is original content representing the latest information from more than 250 internationally recognized mining industry experts Within the handbook's 115 thought provoking chapters are current topics relevant to today's mining professional Analyzing how the mining and minerals industry will develop over the medium and long term why such changes are inevitable what this will mean in terms of challenges and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics from the decisions associated with how best to finance a single piece of high value equipment to the long term cash flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments

in relation to robotics automation acid rock drainage block caving optimization or process dewatering methods Examining in detail the methods and equipment available to achieve efficient predictable and safe rock breaking whether employing a tunnel boring machine for development work mineral extraction using a mobile miner or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest most efficient and most versatile extraction method to employ as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre exploration phase to end of mine issues and beyond and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders **Subspace**

Learning of Neural Networks Jian Cheng Lv,Zhang Yi,Jiliu Zhou,2018-09-03 Using real life examples to illustrate the performance of learning algorithms and instructing readers how to apply them to practical applications this work offers a comprehensive treatment of subspace learning algorithms for neural networks The authors summarize a decade of high quality research offering a host of practical applications They demonstrate ways to extend the use of algorithms to fields such as encryption communication data mining computer vision and signal and image processing to name just a few The brilliance of the work lies with how it coherently builds a theoretical understanding of the convergence behavior of subspace learning algorithms through a summary of chaotic behaviors **Deterministic Learning Theory for Identification, Recognition,**

and Control Cong Wang,David J. Hill,2018-10-03 Deterministic Learning Theory for Identification Recognition and Control presents a unified conceptual framework for knowledge acquisition representation and knowledge utilization in uncertain dynamic environments It provides systematic design approaches for identification recognition and control of linear uncertain systems Unlike many books currently available that focus on statistical principles this book stresses learning through closed loop neural control effective representation and recognition of temporal patterns in a deterministic way A Deterministic View of Learning in Dynamic Environments The authors begin with an introduction to the concepts of deterministic learning theory followed by a discussion of the persistent excitation property of RBF networks They describe the elements of deterministic learning and address dynamical pattern recognition and pattern based control processes The results are applicable to areas such as detection and isolation of oscillation faults ECG EEG pattern recognition robot learning and control and security analysis and control of power systems A New Model of Information Processing This book elucidates a learning theory which is developed using concepts and tools from the discipline of systems and control Fundamental knowledge about system dynamics is obtained from dynamical processes and is then utilized to achieve rapid recognition of dynamical patterns and pattern based closed loop control via the so called internal and dynamical matching of system dynamics This actually represents a new model of information processing i e a model of dynamical parallel distributed processing DPDP

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