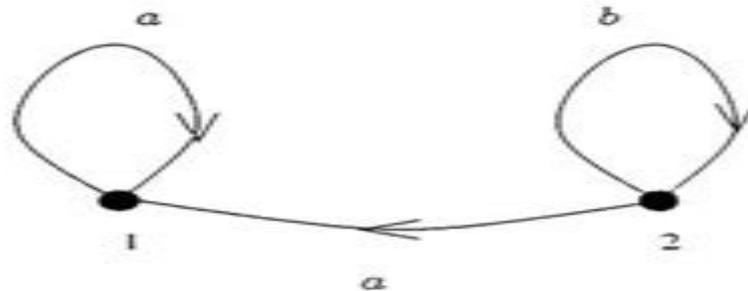


CONSTRAINED MARKOV DECISION PROCESSES



Eitan Altman

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STOCHASTIC MODELING

Constrained Markov Decision Processes Stochastic Modeling Series

Miaomiao Liu, Xin Yu, Chang Xu, Yiliao Song

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Constrained Markov Decision Processes Eitan Altman,2021-12-24 This book provides a unified approach for the study of constrained Markov decision processes with a finite state space and unbounded costs Unlike the single controller case considered in many other books the author considers a single controller with several objectives such as minimizing delays and loss probabilities and maximization of throughputs It is desirable to design a controller that minimizes one cost objective subject to inequality constraints on other cost objectives This framework describes dynamic decision problems arising frequently in many engineering fields A thorough overview of these applications is presented in the introduction The book is then divided into three sections that build upon each other

Generic and Energy-Efficient Context-Aware Mobile Sensing Ozgur Yurur,Chi Harold Liu,2015-02-02 Elaborating on the concept of context awareness this book presents up to date research and novel framework designs for context aware mobile sensing Generic and Energy Efficient Context Aware Mobile Sensing proposes novel context inferring algorithms and generic framework designs that can help readers enhance existing tradeoffs in mobile sensing

AI 2025: Advances in Artificial Intelligence Miaomiao Liu,Xin Yu,Chang Xu,Yiliao Song,2025-11-26 This two volume set LNAI 16370 16371 constitutes the refereed proceedings of the 38th Australasian Joint Conference on Artificial Intelligence AI 2025 held in Canberra ACT Australia during December 1 5 2025 The 73 full papers presented together with 1 short papers were carefully reviewed and selected from 152 submissions They were organized in following topical section Part I Language and Foundation Models and Knowledge Representation and Data Mining Part II Learning Algorithms Computer Vision AI for Healthcare and Reinforcement Learning and Robotics

Stochastic Models and Their Applications ,1991

Wireless Communications Prathima Agrawal,Matthew D. Andrews,Philip J. Fleming,G. George Yin,Lisa Zhang,2010-05-05 This volume contains papers based on invited talks given at the 2005 IMA Summer Workshop on Wireless Communications held at the Institute for Mathematics and Its Applications University of Minnesota June 22 July 1 2005 It presents some of the highlights of the workshop and collects papers covering a broad spectrum of important and pressing issues in wireless communications

Control Techniques for Complex Networks Sean Meyn,2008 From foundations to state of the art the tools and philosophy you need to build network models

Distributed Computer and Communication Networks Vladimir Vishnevsky,Dmitry Kozyrev,Andrey Larionov,2014-03-18 This book constitutes the refereed proceedings of the 17th International Conference on Distributed Computer and Communication Networks DCCN 2013 held in Moscow Russia in October 2013 The 22 revised full papers presented were carefully reviewed and selected from numerous submissions The papers cover the following subjects computer and communication networks architecture optimization control in computer and communication networks performance and QoS evaluation in wireless networks modeling and simulation of network protocols queueing theory wireless IEEE 802 11 IEEE 802 15 IEEE 802 16 and UMTS LTE net works RFID technology and its application in intellectual transportation networks protocols design MAC Routing for

centimeter and millimeter wave mesh networks internet and web applications and services application integration in distributed information systems Optimal Control of Random Sequences in Problems with Constraints A.B.

Piunovskiy, 2012-12-06 Controlled stochastic processes with discrete time form a very interesting and meaningful field of research which attracts widespread attention At the same time these processes are used for solving of many applied problems in the queueing theory in mathematical economics in the theory of controlled technical systems etc In this connection methods of the theory of controlled processes constitute the every day instrument of many specialists working in the areas mentioned The present book is devoted to the rather new area that is to the optimal control theory with functional constraints This theory is close to the theory of multicriteria optimization The compromise between the mathematical rigor and the big number of meaningful examples makes the book attractive for professional mathematicians and for specialists who apply mathematical methods in different specific problems Besides the book contains setting of many new interesting problems for further investigation The book can form the basis of special courses in the theory of controlled stochastic processes for students and post graduates specializing in the applied mathematics and in the control theory of complex systems The grounding of graduating students of mathematical department is sufficient for the perfect understanding of all the material The book contains the extensive Appendix where the necessary knowledge in Borel spaces and in convex analysis is collected All the meaningful examples can be also understood by readers who are not deeply grounded in mathematics

ECAI 2012 C. Bessiere, 2012-08-15 Artificial intelligence AI plays a vital part in the continued development of computer science and informatics The AI applications employed in fields such as medicine economics linguistics philosophy psychology and logical analysis not forgetting industry are now indispensable for the effective functioning of a multitude of systems This book presents the papers from the 20th biennial European Conference on Artificial Intelligence ECAI 2012 held in Montpellier France in August 2012 The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI as well as to demonstrate innovative applications and uses of advanced AI technology ECAI 2012 featured four keynote speakers an extensive workshop program seven invited tutorials and the new Frontiers of Artificial Intelligence track in which six invited speakers delivered perspective talks on particularly interesting new research results directions and trends in Artificial Intelligence or in one of its related fields The proceedings of PAIS 2012 and the System Demonstrations Track are also included in this volume which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI

Mathematical Reviews, 2003 **TIMS/ORSA Bulletin** Institute of Management Sciences, 1993 Proceedings of the 26th IEEE Conference on Decision and Control, 1987 *Intelligent Integrated Energy Systems* Peter Palensky, Miloš

Cvetković, Tamás Keviczky, 2018-10-26 This book presents research results of PowerWeb TU Delft's consortium for interdisciplinary research on intelligent integrated energy systems and their role in markets and institutions In operation

since 2012 it acts as a host and information platform for a growing number of projects ranging from single PhD student projects up to large integrated and international research programs The group acts in an inter faculty fashion and brings together experts from electrical engineering computer science mathematics mechanical engineering technology and policy management control engineering civil engineering architecture aerospace engineering and industrial design The interdisciplinary projects of PowerWeb are typically associated with either of three problem domains Grid Technology Intelligence and Society PowerWeb is not limited to electricity it bridges heat gas and other types of energy with markets industrial processes transport and the built environment serving as a singular entry point for industry to the University s knowledge Via its Industry Advisory Board a steady link to business owners manufacturers and energy system operators is provided **Dissertation Abstracts International** ,2002 Applied Probability ,1986 *Current Index to Statistics, Applications, Methods and Theory* ,1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Cornell University Courses of Study** Cornell University,1998 Proceedings ,1999 *INFORMS Conference Program* Institute for Operations Research and the Management Sciences. National Meeting,2000 **Forthcoming Books** Rose Army,1998

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