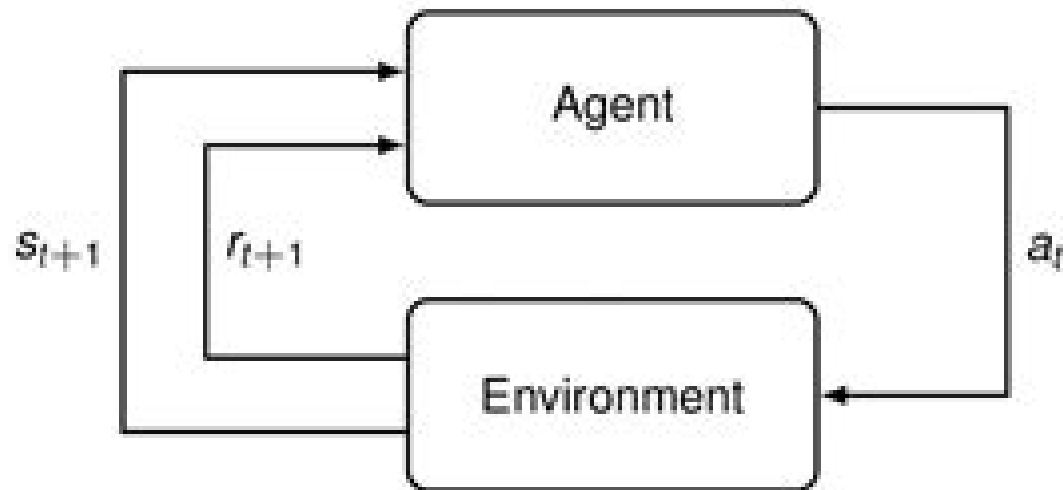


# Markov Decision Process



Action An **action**  $a_t$  at time  $t$  from a set  $A$

State A **state**  $s_t$  from a set  $S$

# Constrained Markov Decision Processes

**AW Chickering**



## **Constrained Markov Decision Processes:**

**Constrained Markov Decision Processes** Eitan Altman,1999-03-30 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 The first part explains the theory for the finite state space The author characterizes the set of achievable expected occupation measures as well as performance vectors and identifies simple classes of policies among which optimal policies exist This allows the reduction of the original dynamic into a linear program A Lagrangian approach is then used to derive the dual linear program using dynamic programming techniques In the second part these results are extended to the infinite state space and action spaces The author provides two frameworks the case where costs are bounded below and the contracting framework The third part builds upon the results of the first two parts and examines asymptotical results of the convergence of both the value and the policies in the time horizon and in the discount factor Finally several state truncation algorithms that enable the approximation of the solution of the original control problem via finite linear programs are given

*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

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*Constrained Markov Decision Processes as Multi-objective Problems* L. C. Thomas,1982 **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

*Finite Approximations in Discrete-Time Stochastic Control* Naci Saldi,Tamás Linder,Serdar Yüksel,2018-05-11 In a

unified form this monograph presents fundamental results on the approximation of centralized and decentralized stochastic control problems with uncountable state measurement and action spaces It demonstrates how quantization provides a system independent and constructive method for the reduction of a system with Borel spaces to one with finite state measurement and action spaces In addition to this constructive view the book considers both the information transmission approach for discretization of actions and the computational approach for discretization of states and actions Part I of the text discusses Markov decision processes and their finite state or finite action approximations while Part II builds from there to finite approximations in decentralized stochastic control problems This volume is perfect for researchers and graduate students interested in stochastic controls With the tools presented readers will be able to establish the convergence of approximation models to original models and the methods are general enough that researchers can build corresponding approximation results typically with no additional assumptions

**Proceedings of IncoME-V & CEPE Net-2020** Dong Zhen,Dong Wang,Tianyang Wang,Hongjun Wang,Baoshan Huang,Jyoti K. Sinha,Andrew David Ball,2021-05-15 This volume gathers the latest advances innovations and applications in the field of condition monitoring plant maintenance and reliability as presented by leading international researchers and engineers at the 5th International Conference on Maintenance Engineering and the 2020 Annual Conference of the Centre for Efficiency and Performance Engineering Network IncoME V CEPE Net 2020 held in Zhuhai China on October 23 25 2020 Topics include vibro acoustics monitoring condition based maintenance sensing and instrumentation machine health monitoring maintenance auditing and organization non destructive testing reliability asset management condition monitoring life cycle cost optimisation prognostics and health management maintenance performance measurement manufacturing process monitoring and robot based monitoring and diagnostics The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Sensitivity of Constrained Markov Decision Processes Eitan Altman,Adam Shwartz,Ṭekhniiyon, Makhon ṭekhnologi le-Yiśra'el. Fakultah le-handasat hashmal,1990

Optimal Control of Random Sequences in Problems with Constraints A.B. Piunovskiy,2012-12-06 Controlled stochastic processes with discrete time form a very interest ing 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 ap ply mathematical methods in different specific problems Besides the book contains setting of many new interesting problems for further invf stigatioll 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

*Reliable Non-Parametric Techniques for Energy System Operation and Control* Hongcai Zhang, Yonghua Song, Ge Chen, Peipei Yu, 2025-07-01 *Reliable Non-Parametric Techniques for Energy System Operation and Control* Fundamentals and Applications of Constraint Learning and Safe Reinforcement Learning Methods a new Volume in the Advances in Intelligent Energy Systems is a comprehensive guide to modern smart methods in energy system operation and control This book covers fundamental concepts and applications in both deterministic and uncertain environments It addresses the challenge of accuracy in imbalanced datasets and the limitations of measurements The book delves into advanced topics such as safe reinforcement learning for energy system control including training efficient intrinsic motivated reinforcement learning and physical layer based control and more Other chapters cover barrier function based control and CVaR based control for systems without hard operation constraints Designed for graduate students researchers and engineers this book stands out for its practical approach to advanced methods in energy system control enabling sustainable developments in real world conditions Bridges the gap between theory and practice providing essential insights for graduate students researchers and engineers Includes visual elements data and code and case studies for easy understanding and implementation Provides the latest release in the Advances in Intelligent Energy Systems series bringing together the latest innovations in smart sustainable energy

*Advances in Dynamic Games and Applications* Jerzy A. Filar, Vladimir Gaitsgory, Koichi Mizukami, 2012-12-06 Modern game theory has evolved enormously since its inception in the 1920s in the works of Borel and von Neumann and since publication in the 1940s of the seminal treatise *Theory of Games and Economic Behavior* by von Neumann and Morgenstern The branch of game theory known as dynamic games is to a significant extent descended from the pioneering work on differential games done by Isaacs in the 1950s and 1960s Since those early decades game theory has branched out in many directions spanning such diverse disciplines as mathematics economics electrical and electronics engineering operations research computer science theoretical ecology environmental science and even political science The papers in this volume reflect both the maturity and the vitality of modern day game theory in general and of dynamic games in particular The maturity can be seen from the sophistication of the theorems proofs methods and numerical algorithms contained in these articles The vitality is manifested by the range of new ideas new applications the number of young researchers among the authors and the expanding worldwide coverage of research centers and institutes where the contributions originated

*Robustness of Policies in Constrained Markov Decision Processes* Alexander Zadorojniy, Adam Shwartz, Tikhoniyon, Makhon tekhnologi le-Yisra'el. Fakultas

le-handasat hashmal. Merказ le-tekhnologiyot tikshoret u-meda,2005      Markov Decision Processes with Policy Constraints  
John Nafeh,Stanford University. Engineering-Economic Systems Department. Decision Analysis Program,1976 This work is  
concerned with Markov Decision Processes with policy constraints The selection of an optimum stationary policy for such  
processes in the absence of policy constraints is a problem which has received a great deal of attention and has been  
satisfactorily solved Relatively little attention has been given to the case when policy constraints are present or to the  
formulation of such constraints Optimum policy sensitivity analysis is also a subject in which little has been achieved Towards  
those ends this work makes three major contributions First policy constraints are formulated and categorized Secondly a  
computationally efficient iterative algorithm is developed for selecting the optimum policy for completely ergodic infinite  
time horizon Markov Decision Processes with policy constraints for both the risk indifferent and risk sensitive cases Finally  
the sensitivity of optimum policies to the policy constraints is analyzed by using the algorithm to compute the value of  
removing a constraint or a group of constraints Author      *Russian Mathematical Surveys* ,1998      Asymptotic Properties of  
Constrained Markov Decision Processes Eitan Altman,1992 Abstract We present in this paper several asymptotic properties  
of constrained Markov Decision Processes MDPs with a countable state space We treat both the discounted and the expected  
average cost with unbounded cost We are interested in 1 the convergence of finite horizon MDPs to the infinite horizon MDP  
2 convergence of MDPs with a truncated state space to the problem with infinite state space 3 convergence of MDPs as the  
discount factor goes to a limit In all these cases we establish the convergence of optimal values and policies Moreover based  
on the optimal policy for the limiting problem we construct policies which are almost optimal for the other approximating  
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