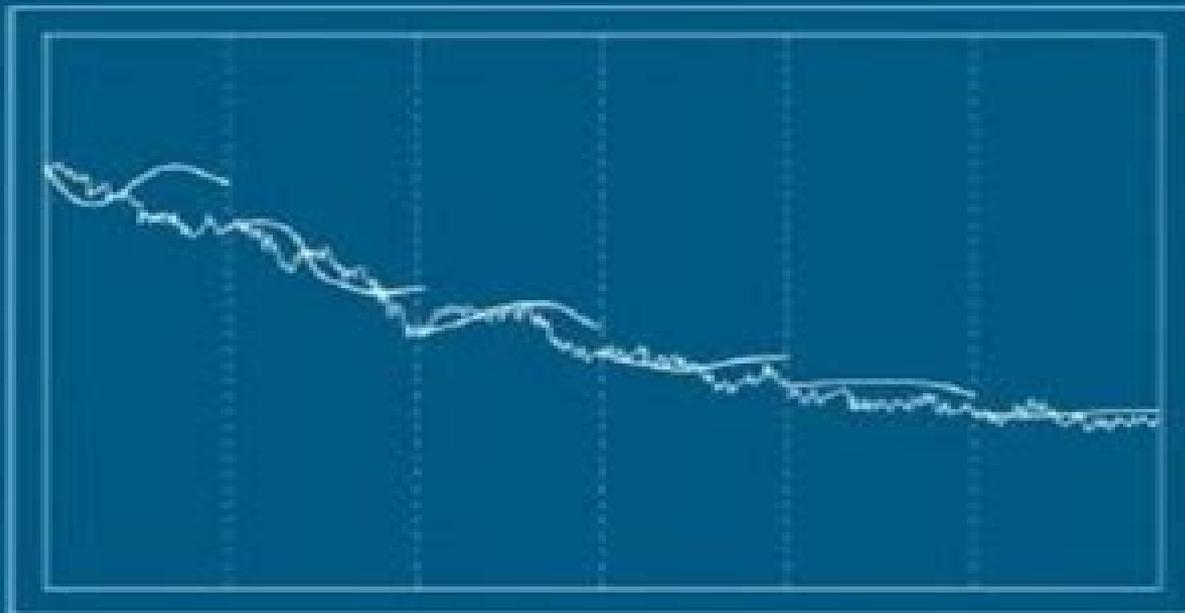


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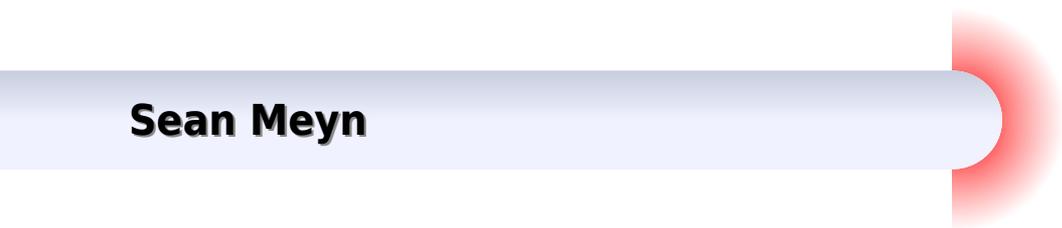
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A Dynamical Systems Viewpoint



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comprehensive guide to distributional reinforcement learning providing a new mathematical formalism for thinking about decisions from a probabilistic perspective Distributional reinforcement learning is a new mathematical formalism for thinking about decisions Going beyond the common approach to reinforcement learning and expected values it focuses on the total reward or return obtained as a consequence of an agent's choices specifically how this return behaves from a probabilistic perspective In this first comprehensive guide to distributional reinforcement learning Marc G Bellemare Will Dabney and Mark Rowland who spearheaded development of the field present its key concepts and review some of its many applications They demonstrate its power to account for many complex interesting phenomena that arise from interactions with one's environment The authors present core ideas from classical reinforcement learning to contextualize distributional topics and include mathematical proofs pertaining to major results discussed in the text They guide the reader through a series of algorithmic and mathematical developments that in turn characterize compute estimate and make decisions on the basis of the random return Practitioners in disciplines as diverse as finance risk management computational neuroscience computational psychiatry psychology macroeconomics and robotics are already using distributional reinforcement learning paving the way for its expanding applications in mathematical finance engineering and the life sciences More than a mathematical approach distributional reinforcement learning represents a new perspective on how intelligent agents make predictions and decisions

Control Systems and Reinforcement Learning Sean Meyn, 2022-06-09 A how to guide and scientific tutorial covering the universe of reinforcement learning and control theory for online decision making *Abstract*

Dynamic Programming Dimitri Bertsekas, 2018-02-01 A research monograph providing a synthesis of old research on the foundations of dynamic programming with the modern theory of approximate dynamic programming and new research on semicontractive models It aims at a unified and economical development of the core theory and algorithms of total cost sequential decision problems based on the strong connections of the subject with fixed point theory The analysis focuses on the abstract mapping that underlies dynamic programming and defines the mathematical character of the associated problem The discussion centers on two fundamental properties that this mapping may have monotonicity and weighted sup norm contraction It turns out that the nature of the analytical and algorithmic DP theory is determined primarily by the presence or absence of these two properties and the rest of the problem's structure is largely inconsequential New research is focused on two areas 1 The ramifications of these properties in the context of algorithms for approximate dynamic programming and 2 The new class of semicontractive models exemplified by stochastic shortest path problems where some but not all policies are contractive The 2nd edition aims primarily to amplify the presentation of the semicontractive models of Chapter 3 and Chapter 4 of the first 2013 edition and to supplement it with a broad spectrum of research results that I obtained and published in journals and reports since the first edition was written see below As a result the size of this material more than doubled and the size of the book increased by nearly 40% The book is an excellent supplement to several

of our books *Dynamic Programming and Optimal Control* Athena Scientific 2017 and *Neuro Dynamic Programming* Athena Scientific 1996 *Reinforcement Learning and Approximate Dynamic Programming for Feedback Control* Frank L. Lewis, Derong Liu, 2013-01-28 Reinforcement learning RL and adaptive dynamic programming ADP has been one of the most critical research fields in science and engineering for modern complex systems This book describes the latest RL and ADP techniques for decision and control in human engineered systems covering both single player decision and control and multi player games Edited by the pioneers of RL and ADP research the book brings together ideas and methods from many fields and provides an important and timely guidance on controlling a wide variety of systems such as robots industrial processes and economic decision making *Iterative Learning Control over Random Fading Channels* Dong Shen, Xinghuo Yu, 2023-12-22 Random fading communication is a type of attenuation damage of data over certain propagation media Establishing a systematic framework for the design and analysis of learning control schemes the book studies in depth the iterative learning control for stochastic systems with random fading communication The authors introduce both cases where the statistics of the random fading channels are known in advance and unknown They then extend the framework to other systems including multi agent systems point to point tracking systems and multi sensor systems More importantly a learning control scheme is established to solve the multi objective tracking problem with faded measurements which can help practical applications of learning control for high precision tracking of networked systems The book will be of interest to researchers and engineers interested in learning control data driven control and networked control systems

Classification and Data Science in the Digital Age Paula Brito, José G. Dias, Berthold Lausen, Angela Montanari, Rebecca Nugent, 2023-12-07 The contributions gathered in this open access book focus on modern methods for data science and classification and present a series of real world applications Numerous research topics are covered ranging from statistical inference and modeling to clustering and dimension reduction from functional data analysis to time series analysis and network analysis The applications reflect new analyses in a variety of fields including medicine marketing genetics engineering and education The book comprises selected and peer reviewed papers presented at the 17th Conference of the International Federation of Classification Societies IFCS 2022 held in Porto Portugal July 19 23 2022 The IFCS federates the classification societies and the IFCS biennial conference brings together researchers and stakeholders in the areas of Data Science Classification and Machine Learning It provides a forum for presenting high quality theoretical and applied works and promoting and fostering interdisciplinary research and international cooperation The intended audience is researchers and practitioners who seek the latest developments and applications in the field of data science and classification

Distributed Computing in Sensor Systems Rajmohan Rajaraman, Thomas Moscibroda, Adam Dunkels, Anna Scaglione, 2010-06-02 The book constitutes the refereed proceedings of the 6th International Conference on Distributed Computing in Sensor Systems DCOSS 2010 held in Santa Barbara CA USA in June 2010 The 28 revised full papers presented

were carefully reviewed and selected from 76 submissions The research contributions in this proceedings span important aspects of sensor systems including energy management communication coverage and tracking time synchronization and scheduling key establishment and authentication compression medium access control code update and mobility AMSTAT News American Statistical Association,2008 The Indian National Bibliography B. S. Kesavan,2009 Indian National Bibliography B. S. Kesavan,2009 Proceedings of the 1991 American Control Conference ,1991 **Journal of Dynamic Systems, Measurement, and Control** ,1986 *Soviet Journal of Computer and Systems Sciences* ,1987 *Statistical Mechanics and Dynamical Systems* David Ruelle,1977 Proceedings Alex Meystel,1990 **Control Using Logic-Based Switching** A.Stephen Morse,1997 A logic based switching controller is one whose subsystems include not only familiar dynamical components such as integrators summers gains etc but event driven logic and associated switches as well In such a system the predominantly logical component is the supervisor mode changer etc There has been growing interest in recent years in determining what could be gained from utilising hybrid controllers of this type To this end a workshop was held on Block Island with the aim of bringing together individuals to discuss the research and common interest in the field This volume not only includes contributions from those who were present at Block Island but also additional material from those who were not Topics covered include hybrid dynamical systems control of hard bound constrained and nonlinear systems automotive problems involving switching control and system control in the face of large scale modeling errors

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