

Dynamic Programming and Optimal Control

Dimitri P. Bertsekas



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Peipei Pang

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Servomechanisms: Bulletin of Automatic and Manual Control Abstracts ,1966 **Dynamic Programming and Optimal Control** Dimitri Bertsekas,2012-10-23 This is the leading and most up to date textbook on the far ranging algorithmic methodology of Dynamic Programming which can be used for optimal control Markovian decision problems planning and sequential decision making under uncertainty and discrete combinatorial optimization The treatment focuses on basic unifying themes and conceptual foundations It illustrates the versatility power and generality of the method with many examples and applications from engineering operations research and other fields It also addresses extensively the practical application of the methodology possibly through the use of approximations and provides an extensive treatment of the far reaching methodology of Neuro Dynamic Programming Reinforcement Learning Among its special features the book 1 provides a unifying framework for sequential decision making 2 treats simultaneously deterministic and stochastic control problems popular in modern control theory and Markovian decision popular in operations research 3 develops the theory of deterministic optimal control problems including the Pontryagin Minimum Principle 4 introduces recent suboptimal control and simulation based approximation techniques neuro dynamic programming which allow the practical application of dynamic programming to complex problems that involve the dual curse of large dimension and lack of an accurate mathematical model 5 provides a comprehensive treatment of infinite horizon problems in the second volume and an introductory treatment in the first volume

Journal of Dynamic Systems, Measurement, and Control ,2001

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International Aerospace Abstracts ,1972 Subject Guide to Books in Print ,1996 Government Reports Index ,1973 SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics,1999 Control Abstracts ,1967 **Cumulative Index to Entire IEEE Group Transactions/journals, 1951-1971: Subject** Nichigai Asoshietsu,1973 U.S. Government Research & Development Reports ,1970 Optimal Control and Viscosity Solutions of Hamilton-Jacobi-Bellman Equations Martino Bardi,Italo Capuzzo-Dolcetta,2008-01-11 This softcover book is a self contained

account of the theory of viscosity solutions for first order partial differential equations of Hamilton Jacobi type and its interplay with Bellman's dynamic programming approach to optimal control and differential games. It will be of interest to scientists involved in the theory of optimal control of deterministic linear and nonlinear systems. The work may be used by graduate students and researchers in control theory both as an introductory textbook and as an up to date reference book.

Calculus of Variations and Optimal Control Theory Daniel Liberzon, 2012-01-08 This textbook offers a concise yet rigorous introduction to calculus of variations and optimal control theory and is a self contained resource for graduate students in engineering applied mathematics and related subjects. Designed specifically for a one semester course the book begins with calculus of variations preparing the ground for optimal control. It then gives a complete proof of the maximum principle and covers key topics such as the Hamilton Jacobi Bellman theory of dynamic programming and linear quadratic optimal control. Calculus of Variations and Optimal Control Theory also traces the historical development of the subject and features numerous exercises notes and references at the end of each chapter and suggestions for further study. Offers a concise yet rigorous introduction. Requires limited background in control theory or advanced mathematics. Provides a complete proof of the maximum principle. Uses consistent notation in the exposition of classical and modern topics. Traces the historical development of the subject. Solutions manual available only to teachers. Leading universities that have adopted this book include University of Illinois at Urbana Champaign ECE 553 Optimum Control Systems Georgia Institute of Technology ECE 6553 Optimal Control and Optimization University of Pennsylvania ESE 680 Optimal Control Theory University of Notre Dame EE 60565 Optimal Control. **Selected Rand Abstracts** Rand Corporation, 1964 Includes publications previously listed in the supplements to the Index of selected publications of the Rand Corporation Oct 1962 Feb 1963

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