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Discrete-Time Markov Control Processes | SpringerLink

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SIAMJ.CONTROL AND OPTIMIZATION Vol.31,No.2,pp.282–344,March1993 c1993SocietyforIndustrialandAppliedMathematics 002 DISCRETE-TIME CONTROLLED MARKOV PROCESSES WITH ...

DISCRETE-TIME CONTROLLED MARKOV PROCESSES WITH AVERAGE ...

In mathematics, a Markov decision process (MDP) is a discrete-time stochastic control process. It provides a mathematical framework for modeling decision making in situations where outcomes are partly random and partly under the control of a decision maker.

Markov decision process - Wikipedia

The time-dependent random variable X_t is describing the state of our probabilistic system at time-step t. Example: Gary's mood In Sheldon Ross's Introduction to Probability Models, he has an example (4.3) of a Markov Chain for modeling Gary's mood.

Introduction to Discrete Markov Chains - GitHub Pages

A Markov chain is a stochastic model describing a sequence of possible events in which the probability of each event depends only on the state attained in the previous event. In continuous-time, it is known as a Markov process. It is named after the Russian mathematician Andrey Markov.. Markov chains have many applications as statistical models of real-world processes, such as studying cruise ...

Markov chain - Wikipedia

Although several models of discrete time Markov decision processes (DTMDPs) have been applied to find optimal control policies, the existing literatures show that the objective functions focus on the long term and short term expected rewards/costs.

Optimal control for probabilistic Boolean networks using ...

This article explores controllable Borel spaces, stationary, homogeneous Markov processes, discrete time with infinite horizon, with bounded cost functions and using the expected total discounted cost criterion. The problem of the estimation of stability for this type of process is set. The central objective is to obtain a bounded stability index expressed in terms of the Lévy-Prokhorov ...

Stability Estimation for Markov Control Processes with ...

In this paper we study existence of solutions to the Bellman equation corresponding to risk-sensitive ergodic control of discrete-time Markov processes using three different approaches. Also, for particular classes of systems, asymptotics for vanishing risk factor is investigated, showing that in the limit the optimal value for an average cost per unit time is obtained.

Risk-Sensitive Control of Discrete-Time Markov Processes ...

In mathematics, a Markov decision process (MDP) is a discrete-time stochastic control process. It provides a mathematical framework for modeling decision making in situations where outcomes are partly random and partly under the control of a decision maker. MDPs are useful for studying optimization

Markov decision process - WikiMili, The Best Wikipedia Reader

This book is devoted to a systematic exposition of some recent developments in the theory of discrete-time Markov control processes. Interest is mainly confined to MCPs with Borel state and control spaces, and possibly unbounded costs.

Further topics on discrete-time Markov control processes ...

A Markov decision process (MDP) is a discrete time stochastic control process. It provides a mathematical framework for modeling decision making in situations where outcomes are partly random and partly under the control of a decision maker.

A Medley of Potpourri: Markov decision process

This work concerns discrete-time Markov decision chains with finite state space and bounded costs. The controller has constant risk sensitivity Î», and the performance of a control policy is measured by the corresponding risk-sensitive average cost criterion. Assuming that the optimality... THE COMPLEXITY OF OPTIMAL SMALL POLICIES.