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Algorithms for Reinforcement Learning (Synthesis Lectures ...

The goal in reinforcement learning is to develop efficient learning algorithms, as well as to understand the algorithms' merits and limitations. Reinforcement learning is of great interest because of the large number of practical applications that it can be used to address, ranging from problems in artificial intelligence to operations research or control engineering.

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Algorithms for Reinforcement Learning Draft of the lecture published in the Synthesis Lectures on Artificial Intelligence and Machine Learning series by Morgan & Claypool Publishers Csaba Szepesvari June 9, 2009 Contents 1 Overview 3 2 Markov decision processes 7

Algorithms for Reinforcement Learning

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Synthesis Lectures on Artificial Intelligence and Machine Learning 4(1) ... In this book we focus on those algorithms of reinforcement learning which build on the powerful theory of dynamic ...

(PDF) Algorithms for Reinforcement Learning

A Structural Overview of Reinforcement Learning Algorithms Actor Critic, Policy Gradient, DQN, VFA, SARSA, Q-learning, Model-based and Model-free Monte Carlo, Dynamic Programming Siwei Xu

Overview of Reinforcement Learning Algorithms | Towards ...

Reinforcement learning algorithms discover policies that maximize reward. However, these policies generally do not adhere to safety, leaving safety in reinforcement learning (and in artificial intelligence in general) an open research problem. Shield synthesis is a formal approach to synthesize a correct-by-construction reactive system called a

Shield Synthesis for Reinforcement Learning — Graz ...

Program Synthesis using Deduction-Guided Reinforcement Learning 5 Policy gradient algorithm. The policy gradient algorithm is a well-known RL algorithm for finding optimal policies. It assumes a parametric policy family π_{θ} with parameters $\theta \in \mathbb{R}^d$. For example, π_{θ} may

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be a deep neural network (DNN), where θ denotes the parameters of the DNN.

Program Synthesis using Deduction-Guided Reinforcement ...

Alpha Go algorithm.²² Though it has great search success rate, the method does not take green chemistry into account. Schreck et al.^{3,27} used another variant of MCTS, Upper Confidence bound applied to Trees (UCT),^{28–30} in a reinforcement learning approach to find synthesis pathways with as few purchasable precursors as possible. However, the UCT method is prone to

Towards efficient discovery of green synthetic pathways ...

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The team at DiffBlue decided that using reinforcement learning algorithms coupled with program synthesis to generate the “ the best-fit-tests ” for the code is the best solution in this use case.

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Automating Java Code Testing With Program Synthesis

dominant model to solve reinforcement learning problems. Generally, we call these methods deep reinforcement learning algorithms, since these algorithms use a deep neural network as the value function approximator or the policy function approximator. Deep q-learning (DQN) [22], double DQN [9], dueling DQN (DDQN) [36] are prestigious algorithms that train a deep neural network for reinforcement learning problems. However, the black-box property

Interpretable policy derivation for reinforcement learning ...

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The authors have used A2C reinforcement learning algorithm to determine the order of applying optimization commands (among a few candidate commands) to a given circuit for achieving better QoR....

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DRiLLS: Deep Reinforcement Learning for Logic Synthesis ...

A popular algorithm, Q-learning [9], is an off-policy variant of TD learning. In an off-policy algorithm, the policy that the agent follows to interact with the environment (behavior policy) is independent of the optimal policy that the agent aims to learn (target policy). To see the TABLE I Comparisons of value-based reinforcement learning algorithms.

Reinforcement Learning Driven Physical Synthesis

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Together with a value network trained from reinforcement learning and a solvent-prediction neural network, our algorithm is comparable to the best MCTS variant (PUCT, similar to Google's Alpha Go) in finding valid synthesis pathways within a fixed searching time, and superior in identifying shorter routes with greener solvents under the same search conditions.

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Towards efficient discovery of green synthetic pathways ...

For problems involving one such model, i.e. linear quadratic regulation problems, novel convergence proofs for heuristic DP algorithms are presented. This is one of few available convergence proofs for reinforcement learning in continuous state spaces. Reinforcement learning is closely related to optimal control, where local models are commonly used.

Reinforcement Learning and Distributed Local Model Synthesis

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Reinforcement learning is a learning paradigm concerned with learning to control a system so as to

maximize a numerical performance measure that expresses a long term objective

What distinguishes reinforcement learning is a learning paradigm concerned with learning to control a system so as to maximize a numerical performance measure ...

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Tabular Methods. To learn the optimal action in unknown environment, Q-learning is the

simple algorithm in reinforcement learning. Without having a model of an environment, it can learn the ...

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