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(eds) Proceedings of 2nd International Conference on Intelligent Computing and Applications. Advances in Intelligent Systems and Computing, vol 467. Springer, Singapore. First Online 13 October 2016

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The aim of our quantum reinforcement learning protocol is for the agent to acquire information from its environment and adapt to it, via a

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rewarding mechanism. In this fully quantum scenario the meaning of the learning process is the establishment of quantum correlations among the parties.

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eigensolver. F Albarrán-Arriagada 1,2,3, J C Retamal 2,3, ... Cárdenas-López F A, Lamata L, Retamal J C and Solano E 2018 Multiqubit and multilevel quantum reinforcement learning with quantum technologies PLoS One 13 e0200455. Crossref Google Scholar. Crawford D, Levit A ...

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In the reinforcement learning framework, an autonomous agent learns how to map its state in a state space, $s \in S$, to an action from its action space, $a \in A$, by repeated interaction with an environment. The environment provides the agent with a reward signal,

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r $\in \mathbb{R}$, in response to its action.

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unconstrained exploration of the learning process prevents the adoption of these methods in many safety critical applications.

Safe Reinforcement Learning on Autonomous Vehicles | DeepAI

Aug 03, 2020: An autonomous synthesis bot for quantum dots (Nanowerk News)

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While in their infancy, self-optimizing devices have begun to unravel the challenges of these more complex chemical processes, with their existing applications spanning organic reactions to nanocrystal syntheses. Recent advances in supervised and reinforcement machine learning techniques, such as multi-output neural

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However, after taking random actions
over many iterations, it slowly learns to

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accurately predict rewards for each action. It does this by adjusting its predicted reward for specific state-action pairs towards the received reward every time. These predicted rewards, are formally known as Q-Values.

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Autonomous Systems - Microsoft AI

(Submitted on 24 Sep 2019) We present a control approach for autonomous vehicles based on deep reinforcement learning. A neural network agent is trained to map its estimated state to acceleration and steering commands given the objective of reaching a specific target state while considering detected

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obstacles.

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Controlling an Autonomous Vehicle with Deep Reinforcement ...

tion to build advanced machine learning algorithms. Dong et al. [5] proposed the concept of quantum reinforcement learning (QRL), in which QRL was applied to solve the typical gridworld problem.

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Thereafter, in [7], Dong et al. introduced quantum-inspired reinforcement learning (QiRL) into the field of navigation control of autonomous mobile robots.

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choosing actions (e.g. motor commands), and sometimes receives a reward for achieving a specified goal.

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Now, Microsoft and partners like MathWorks are expanding the use of AI into more areas such as those that

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require learning from the three-dimensional physical world around them — through the power of reinforcement learning and simulation. Engineers have long used simulations to mathematically model the systems they work with in the real world.

How autonomous systems use AI

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Reinforcement learning (RL) provides exciting opportunities for game development, as highlighted in our recently announced Project Paidia—a research collaboration between our Game Intelligence group at Microsoft Research Cambridge and game

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developer Ninja Theory. In Project Paidia, we push the state of the art in reinforcement learning to enable new game experiences.

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This repository contains code for robot exploration under uncertainty that uses

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graph neural networks (GNNs) in conjunction with deep reinforcement learning (DRL), enabling decision-making over graphs containing exploration information to predict a robot's optimal sensing action in belief space. A ...

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