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Recurrent Reinforcement Learning A Hybrid

Recurrent Reinforcement Learning: A Hybrid Approach
Recurrent Reinforcement Learning: A Hybrid Approach Xiujun Li1, Lihong Li 2, Jianfeng Gao , Xiaodong He 2, Jianshu Chen , Li Deng2, Ji He3 lixiujun@cswiscedu flihongli, jfgao, xiaohe, jianshuc, dengg@microsoftcom jvking@uwedu
Reinforcement Learning with Recurrent Neural Networks
Reinforcement Learning with Recurrent Neural Networks Dissertation zur Erlangung der Doktorwurde¨ der Universitat Osnabr¨ uck¨ – Fachbereich Mathematik/Informatik – Vorgelegt von Herrn Anton Maximilian Schafer¨ Osnabruck, den 31102008¨ Supervisors: Prof Dr Martin Riedmiller, University of Osnabruck¨ Dr Hans-Georg Zimmermann
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2009), supervised learning/reinforcement learning hybrid methods (Henderson et al, 2005), and also in commercial and open source frameworks such as VoiceXML2 and AIML3 By contrast, our method automatically infers a representation of dialog history in the recurrent neural network which is optimal for predicting ac-tions to take at future
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Reinforcement Learning is researched for energy saving in a hybrid vehicle Energy efficiency can be continuously improved by multi-step learning The 'Recurrent-to-Terminal' strategy is shown

Hybrid computing using a neural network with dynamic ...

Hybrid computing using a neural network with dynamic external memory Alex 1Graves *, reinforcement learning 4, Figure 1 | DNC architecture a, A recurrent controller network receives input from an external data source and produces output b, c, The

Energy Management of a Parallel Hybrid Electric Vehicle

IEEE/ASME TRANSACTIONS ON MECHATRONICS 1 running Abstract—This paper presents a predictive energy management strategy for a parallel hybrid electric vehicle (HEV) based on velocity prediction and reinforcement learning (RL)

Hybrid Code Networks: practical and efficient end-to-end ...

Hybrid Code Networks: practical and efficient end-to-end dialog control with supervised and reinforcement learning Jason D Williams Microsoft Research jasonwilliams@microsoftcom Kavosh Asadi Brown University kavosh@brownedu Geoffrey Zweig Microsoft Research g2zweig@gmailcom Abstract End-to-end learning of recurrent neural

EXPLORING ALGORITHMS FOR AUTOMATED FX TRADING ...

Exploring Algorithms for Automated FX Trading – Constructing a Hybrid Model 2 Table 1 provides a summary of the profits that the models were able to generate during our 33-day testing period We have given separate figures for each of the tested currencies Table 1 Average daily profits generated by the models during the 33 testing period

Hybrid Code Networks: practical and efcient end-to-end ...

Hybrid Code Networks: practical and efcient end-to-end dialog control with supervised and reinforcement learning Jason D Williams Microsoft Research jasonwilliams@microsoftcom Kavosh Asadi Brown University kavosh@brownedu Geoffrey Zweig Microsoft Research g2zweig@gmailcom Abstract End-to-end learning of recurrent neural

Towards End-to-End Learning for Dialog State Tracking and ...

Towards End-to-End Learning for Dialog State Tracking and Management using Deep Reinforcement Learning Tiancheng Zhao and Maxine Eskenazi Language Technologies Institute Carnegie Mellon University ftianchez, max+ g@cscmuedu Abstract This paper presents an end-to-end frame-work for task-oriented dialog systems using a variant of Deep Recurrent Q-

A Survey on Machine Learning Applied to Dynamic Physical ...

[25] recurrent neural network is used to control nonlinear plants The proposed method is used in controlling landing of a commercial aircraft in severe wind conditions D Reinforcement learning based controllers Reinforcement learning (RL) methods for optimal control of nonlinear systems are presented in [15], [26]–[29] RL

Learning Long-term Dependencies with Deep Memory States

Learning Long-term Dependencies with Deep Memory States Rather than loading full episodes or truncating gradients, one can instead augment the original MDP with memory states (Peshkin et al,2001;Zhang et al) In addition to regular MDP actions, a policy outputs a vector called mem-ory states, which it receives as input at the next time step

Reinforcement Hybrid Evolutionary Learning for TSK-Type ...

Abstract: This paper proposes a recurrent TSK-type neuro-fuzzy controller (TNFC) with reinforcement hybrid evolutionary learning algorithm (R-

HELA) The proposed R-HELA combines the compact genetic algorithm (CGA) and the modified variable-length genetic algorithm (MVGA) to perform the

IEEE TRANSACTIONS ON FUZZY SYSTEMS, VOL. 15, NO. 4, ...

Reinforcement Hybrid Evolutionary Learning for Recurrent Wavelet-Based Neurofuzzy Systems Cheng-Jian Lin, Member, IEEE, and Yung-Chi Hsu Abstract—This paper proposes a recurrent wavelet-based neurofuzzy system (RWNFS) with the reinforcement hybrid evolutionary learning algorithm (R-HELA) for solving various control problems

Forecasting Series-Based Stock Price Data using Direct ...

Hybrid View The concern of reinforcement learning regards decision- making in uncertain environments The essential idea behind reinforcement learning is a simple penalty-reward strategy Compared with supervised learning, reinforcement learning techniques are a form of match-based learning (other than

Guided Deep Reinforcement Learning for Robot Swarms

Guided Deep Reinforcement Learning for Robot Swarms Guided Deep Reinforcement Learning für Roboter Schwärme Vorgelegte Master-Thesis von Maximilian Hüttenrauch aus Rüdesheim am Rhein

Sentence Simplification with Deep Reinforcement Learning

inforcement learning framework is the key to suc-cessful generation of simplied text bringing sig-nicant improvements over strong simplication models across datasets 2 Neural Encoder-Decoder Model We will rst dene a basic encoder-decoder model for sentence simplication and then ex-plain how to embed it in a reinforcement learning framework

Reinforcement Learning in Online Stock Trading Systems

reinforcement learning techniques Four techniques, two based on Recurrent Reinforcement Learning (RLL) and two based on Q-learning, were utilized Q-learning produced results that consistently beat Buy and Hold strategies on several technology stocks, whereas the RRL methods were often inconsistent and require further investigation 1 Introduction