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**Learning To Execute Arxiv**

Recurrent Neural Networks (RNNs) with Long Short-Term Memory units (LSTM) are widely used because they are expressive and are easy to train. Our interest lies in empirically evaluating the expressiveness and the learnability of LSTMs in the sequence-to-sequence regime by training them to evaluate short computer programs, a domain that has traditionally been seen as too complex for neural ...

**[1410.4615] Learning to Execute - arxiv.org**

We found it difficult to train LSTMs to execute computer programs, so we used curriculum learn-ing to simplify the learning problem. We design a curriculum procedure which outperforms

both conventional training that uses no curriculum learning (baseline) as well as the naive curriculum learning of strategy of Bengio et al. (2009) (Section 4).

**LEARNING TO EXECUTE - arxiv.org**

A significant effort has been made to train neural networks that replicate algorithmic reasoning, but they often fail to learn the abstract concepts underlying these algorithms. This is evidenced by their inability to generalize to data distributions that are outside of their restricted training sets, namely larger inputs and unseen data. We study these generalization issues at the level of ...

**Neural Execution Engines: Learning to Execute ... - arXiv.org**

The use of deep learning techniques has achieved significant progress for program synthesis from input-output examples. However, when the program semantics become more complex, it still remains a challenge to synthesize

programs consistent with the specification. In this work, we propose SED, a neural program generation framework that incorporates synthesis, execution, and debugging stages ...

**Synthesize, Execute and Debug: Learning to ... - arxiv.org**

arXiv:1410.4615v1 [cs.NE] 17 Oct 2014. Learning to Execute (Maddison & Tarlow,2014) learned a language model on parse trees, and (Mou et al.,2014) predicted whether two programs are equivalent or not. Both of these approaches require parse trees, while we learn from a program charac-

**Abstract arXiv:1410.4615v1 [cs.NE] 17 Oct 2014**

We seek to efficiently learn by leveraging shared structure between different tasks and environments. For example, cooking is similar in different kitchens, even though the ingredients may change location. In principle, meta-reinforcement learning approaches can

exploit this shared structure, but in practice, they fail to adapt to new environments when adaptation requires targeted exploration ...

**Explore then Execute: Adapting without Rewards ... - arxiv.org**

As someone equipped with both a PhD in astroparticle physics and more than 6 years of experience from a career in scientific publishing, Presani is extremely qualified to help execute the vision of arXiv. Presani began her presentation with her own mantra on the dissemination of scientific research: “knowledge only exists if it is accessible.”

**arXiv at the American Astronomical Society | arXiv.org blog**

Human perception of 3D shapes goes beyond reconstructing them as a set of points or a composition of geometric primitives: we also effortlessly understand higher-level shape structure such as the repetition and reflective

symmetry of object parts. In contrast, recent advances in 3D shape sensing focus more on low-level geometry but less on these higher-level relationships. In this paper, we ...

**Learning to Infer and Execute 3D Shape Programs - arxiv.org**

Learning to Execute. This software allows to train a Recurrent Neural Network (RNN) with Long-Short Term Memory (LSTM) units on short snippets of python code. The Network is trained to predict the output of the generated programs.

**GitHub - wojciechz/learning_to_execute: Learning to Execute**

A significant effort has been made to train neural networks that replicate algorithmic reasoning, but they often fail to learn the abstract concepts underlying these algorithms. This is evidenced by their inability to generalize to data distributions that are outside of

their restricted training sets, namely larger inputs and unseen data. We study these generalization issues at the level of ...

**Neural Execution Engines: Learning to Execute Subroutines ...**

The data folder contains:. thor_offline_data which is organized into sub-folders, each of which corresponds to a scene in AI2-THOR.For each room we have scraped the ResNet features of all possible locations in addition to a metadata and NetworkX graph of possible navigations in the scene.; thor_glove which contains the GloVe embeddings for the navigation targets.

**GitHub - allenai/savn: Learning to Learn how to Learn ...**

Recurrent Neural Networks (RNNs) with Long Short-Term Memory units (LSTM) are widely used because they are expressive and are easy to train. Our interest lies in empirically evaluating the expressiveness and the learnability of

LSTMs in the sequence-to-sequence regime by training them to evaluate short computer programs, a domain that has traditionally been seen as too complex for neural ...

**Learning to Execute - NASA/ADS**

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**Learning to Infer and Execute 3D Shape Programs - NASA/ADS**

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**Explore then Execute: Adapting without Rewards via ...**

Edge learning (EL), which uses edge computing as a platform to execute machine learning algorithms, is able to fully exploit the massive sensing data generated by Internet of Things (IoT). However, due to the limited transmit power at IoT devices, collecting the sensing data in EL systems is a challenging task. To address this challenge, this paper proposes to integrate unmanned ground vehicle ...

**Edge Learning with Unmanned Ground Vehicle ... - arxiv.org**

We propose a novel solution to challenging sparse-reward, continuous control problems that require hierarchical planning at multiple levels

of abstraction. Our solution, dubbed AlphaNPI-X, involves three separate stages of learning. First, we use off-policy reinforcement learning algorithms with experience replay to learn a set of atomic goal-conditioned policies, which can be easily ...

**Learning Compositional Neural Programs ... - arxiv-vanity.com**

Reinforcement learning agents can learn to solve sequential decision tasks by interacting with the environment. Human knowledge of how to solve these tasks can be incorporated using imitation learning, where the agent learns to imitate human demonstrated decisions. However, human guidance is not limited to the demonstrations. Other types of guidance could be more suitable for certain tasks and ...

**Leveraging Human Guidance for Deep Reinforcement Learning ...**

Intelligent assistants that follow commands or answer simple questions,

such as Siri and Google search, are among the most economically important applications of AI. Future conversational AI assistants promise even greater capabilities and a better user experience through a deeper understanding of the domain, the user, or the user's purposes. But what domain and what methods are best suited ...

**Document-editing Assistants and Model ... - arxiv-vanity.com**

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