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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 ...

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We found it difficult to train LSTMs to execute computer programs, so we used curriculum learning 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).

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arXiv:2010.12621(cs) [Submitted on 23 Oct 2020] Title: Learning to Execute Programs with Instruction Pointer Attention Graph Neural Networks. Authors: David Bieber, Charles Sutton, Hugo Larochelle,

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Daniel Tarlow. Download PDF. Abstract:Graph neural networks (GNNs) have emerged as a powerful tool for learning software engineering tasks including code completion, bug finding, and program repair.

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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 ...

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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~~

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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 ...

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Learning to produce efficient movement behaviour for humanoid robots from scratch is a hard problem, as has been illustrated by the "Learning to run" competition at NIPS 2017. The goal of this competition was to train a two-legged model of a humanoid body to run in a simulated race course with maximum speed. All submissions took a tabula rasa approach to reinforcement learning (RL) and were ...

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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 ...

~~[2008.02790] Explore then Execute: Adapting ... arXiv.org~~

Learning to Execute - arXiv 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, Page 2/8

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File Type PDF Learning To Execute Arxiv few thousand titles, they're all free and guaranteed to be PDF-optimized. Most of them are literary classics, like The Great Gatsby, A Tale of Two Cities, Crime and Punishment, etc. Learning To Execute Arxiv Notably, it was necessary to use curriculum learning, and while conventional curriculum learning proved

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Learning to run a Power Network (L2RPN) with an emphasis on the challenging use of topological flexibilities and the safety robustness requirement. The L2RPN competition which we will present and analyze here, takes some inspiration from the Learning to run [14] competition, whose goal was to learn a controller of a human body to walk and run ...

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...

Recently we proposed the Span Attribute Tagging (SAT) Model Du et al. (2019) to infer clinical entities (e.g., symptoms) and their properties (e.g., duration). It tackles the challenge of large label space and limited training data using a hierarchical two-stage approach that identifies the span of interest in a tagging step and assigns labels to the span in a classification step.

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