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Gradient descent, how neural networks learn | Deep learning, chapter 2 **4. Stochastic Gradient Descent** **Stanford CS224N: NLP with Deep Learning | Winter 2019 | Lecture 11 - Convolutional Networks for NLP**

Input Convex Neural Networks Arxiv

This paper presents the input convex neural network architecture. These are scalar-valued (potentially deep) neural networks with constraints on the network parameters such that the output of the network is a convex function of (some of) the inputs. The networks allow for efficient inference

via optimization over some inputs to the network given others, and can be applied to settings including structured prediction, data imputation, reinforcement learning, and others.

[1609.07152] Input Convex Neural Networks - arXiv.org

ative) Qfunction, $Q(s;a; \cdot)$ as an input convex neural network. In this case the action selection procedure can be formulated as a convex optimization problem $a^*(s) = \operatorname{argmin}_a Q(s;a; \cdot)$. This paper lays the foundation for optimization, inference, and learning in these input convex models, and explores their performance in the applications above. Our main con-

Input Convex Neural Networks - arXiv

In this paper, we propose to use specifically designed neural network to tackle the learning and optimization problem together. In the training stage, the proposed input convex neural network learns the mapping between the power injections and the voltages. In the voltage regulation stage, such trained network can find the optimal reactive power injections by design.

Input Convex Neural Networks for Optimal ... - arXiv.org

This involves learning two convex functions, by solving a novel minimax optimization. Building upon recent advances in the field of input convex neural networks, we propose a new framework where the gradient of one convex function represents the optimal transport mapping. Numerical experiments confirm that we learn the optimal transport mapping.

Optimal transport mapping via input convex neural networks

This paper presents the input convex neural network architecture. These are scalar-valued (potentially deep) neural networks with constraints on the network parameters such that the output of the network is a convex function of (some of) the inputs. The networks allow for

Input Convex Neural Networks - arxiv.org

1)We constrain the neural network to have an input convex structure, which allows the model to generalize well. The guarantees on generalization performance are given in Theorem 5.4 and Theorem 5.5. These theorems prove our method can generalize to testing data points from spaces unseen in the training process. The effectiveness of

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(b) The proposed input convex recurrent neural networks (ICRNN) architectures. In our control settings, we keep all weights in both networks nonnegative, while expanding the inputs with u . A. Single-shot problem The following proposition states a simple sufficient condition for a neural network to be input convex: Proposition 1. The feedforward neural network in Fig. 2(a) is convex from input to output given that all weights

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Input convex neural networks (ICNNs) are a class of scalar-valued neural networks $f(x; \theta)$ such that

the function $x \mapsto f(x; \theta) \in \mathbb{R}$ is convex. The neural network architecture for an ICNN is as follows. Given an input $x \in \mathbb{R}^d$, the mapping $x \mapsto f(x; \theta)$ is given by a L -layer feed-forward NN using the following equations for $l = 0, 1, \dots, L - 1$:

Optimal transport mapping via input convex neural networks ...

ative) Qfunction, $Q(s;a; \cdot)$ as an input convex neural network. In this case the action selection procedure can be formulated as a convex optimization problem $a^*(s) = \operatorname{argmin}_a Q(s;a; \cdot)$. This paper lays the foundation for optimization, inference, and learning in these input convex models, and explores their performance in the applications above. Our main con-

Input Convex Neural Networks - Proceedings of Machine ...

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arXiv:2002.09773v1 [cs.LG] 22 Feb 2020 Convex Duality of Deep Neural Networks Tolga Ergen 1Mert Pilanci Abstract We study regularized deep neural networks and introduce an analyti

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Input Convex Neural Networks - NASA/ADS

Input Convex Neural Networks for Optimal Voltage Regulation. Feb 19, 2020. The increasing penetration of renewables in distribution networks calls for faster and more advanced voltage regulation strategies. A promising approach is to formulate the problem as an optimization problem, where the optimal reactive power injection from inverters are calculated to maintain the voltages

while satisfying power network constraints.

Input Convex Neural Networks for Optimal Voltage Regulation

Abstract. This paper presents the input convex neural network architecture. These are scalar-valued (potentially deep) neural networks with constraints on the network parameters such that the output of the network is a convex function of (some of) the inputs. The networks allow for efficient inference via optimization over some inputs to the network given others, and can be applied to settings including structured prediction, data imputation, reinforcement learning, and others.

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This paper presents the input convex neural network architecture. These are scalar-valued (potentially deep) neural networks with constraints on the network parameters such that the output of the network is a convex function of (some of) the inputs. The networks allow for efficient inference via optimization over some inputs to the network given others, and can be applied to settings

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Training neural networks involves minimizing a complex, high-dimensional, nonconvex loss function, yet, empirically, it proves possible to produce useful models without rigorous global optimization. To provide insight into this observation, we analyze the structure of the loss-function landscape of deep neural networks and show that it features either a single funnel or low barriers between ...

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