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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

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

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performance in the applications above.

Our main con-

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In this paper, we propose to use specifically designed neural network to tackle the learning and optimization problem together. In the training stage, the

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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.

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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

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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

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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

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1) We constrain the neural network to have

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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-

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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

~~Optimal Control Via Neural Networks: A~~

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~~Convex Approach arXiv~~

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

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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

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formulated as a convex optimization problem $s^*(a) = \operatorname{argmin}_s Q(s; a)$. 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-

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Input Convex Neural Networks (ICNNs)

This repository is by Brandon Amos,
Leonard Xu, and J. Zico Kolter and

contains the TensorFlow source code to
reproduce the experiments in our ICML
2017 paper Input Convex Neural

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arXiv:2002.09773v1 [cs.LG] 22 Feb 2020

Convex Duality of Deep Neural Networks

Tolga Ergen 1Mert Pilanci Abstract We

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study regularized deep neural networks
and introduce an analyti

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This paper presents the input convex
neural network architecture. These are
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Abstract. This paper presents the input convex neural network architecture. These are scalar-valued (potentially deep) neural networks with constraints on the network

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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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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

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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.

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~~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

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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

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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,

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Training neural networks involves minimizing a complex, high-dimensional, nonconvex loss function, yet, empirically, it proves possible to produce useful

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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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In this paper, we propose a new neural architecture search (NAS) problem of Symmetric Positive Definite (SPD) manifold networks. Unlike the conventional NAS problem, our problem requires to search for a unique computational cell called the SPD cell.

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This SPD cell serves as a basic building block of SPD neural architectures. An efficient solution to our problem is important to minimize the ...

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