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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.

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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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~~[1609.07152] Input Convex
Neural Networks — arXiv.org~~
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

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$a^*(s) = \operatorname{argmin}_a Q(s; a; \cdot)$. 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-

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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 proposed input convex neural

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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

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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~~

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~~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

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function of (some of) the inputs.
The networks allow for

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1) We constrain the neural network to have an input convex structure, which allows the model

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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

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(b) The proposed input convex recurrent neural networks (ICRNN) architectures. In our control settings, we keep all

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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

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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-

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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

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for $l = 0, 1, \dots, L - 1$:

~~Optimal transport mapping via
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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

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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-

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Input Convex Neural Networks
(ICNNs) This repository is by
Brandon Amos, Leonard Xu, and J.
Zico Kolter and contains the
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reproduce the experiments in our ICML 2017 paper Input Convex Neural Networks. If you find this repository helpful in your publications, please consider citing our paper.

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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 parameters such that the

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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,

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reinforcement learning, and
others.

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Optimal Voltage Regulation. Feb
19, 2020. The increasing

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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

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from inverters are calculated to maintain the voltages while satisfying power network constraints.

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Abstract. This paper presents the

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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 neural network architecture. These are scalar-valued (potentially deep) neural networks with constraints on the

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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 ...

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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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problem of Symmetric Positive
Definite (SPD) manifold networks.
Unlike the conventional NAS

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problem, our problem requires to search for a unique computational cell called the SPD cell. 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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