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# Data fusion on convolution networks

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## Abstract

## 1 Introduction

Data fusion on convolution neural network, dimensionality and complexity reduction of network.

## 2 Related work

Learning both weight and ... parameter reduction, 14,15,12,13 OBD,OBS Dropout 19,20,21 HashedNets 22,23,24 vanishing gradient problem 26 other models AlexNet 29 Deep fried convnets 28

tensor train TT NN rank 5,18,22 hash 3 lower numerical precision 1,9, fewer parameters 7

## 3 Method description

Pictures... Implementation of same-time matrix trifactorization on convolution network... Tensor train implementation?, Learning Connections in Addition to Weights? retraining

## 4 Experiments

Description and preparation of datasets, parameters, results, analysis. (mnist, imageNet, CIFAR)

## 5 Discussion and conclusion

Acknowledgments

References