

Machine Learning- Exercise 5

Convolutional Neural Networks

Ali Athar & Idil Esen Zulfikar

`<lastname>@vision.rwth-aachen.de`

RWTH Aachen University - Computer Vision Group

<http://www.vision.rwth-aachen.de/>

2021-01-28



Content

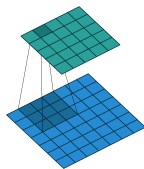
1. Convolutional Neural Network



Content

1. Convolutional Neural Network

Understanding CNN



A technical report on convolution arithmetic in the context of deep learning.

- ▶ Vincent Dumoulin, Francesco Visin - A guide to convolution arithmetic for deep learning
- ▶ Paper: <https://arxiv.org/abs/1603.07285>
(Section 1-3, pages [1,...,19] covered in lecture)
- ▶ Animations:
https://github.com/vdumoulin/conv_arithmetic

Convolutional Neural Networks - Our Model

