Deep Learning: Modern Artificial Vision

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 $March\ 2025$

Acknowledgements

A special thanks to all those who contributed to this work...

Preface

This is the preface of the document...

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Introduction

Deep Learnining

Optimization

Datasets

Introduction to CNNs

5.1 Image Classification

Model evaluation

Part II State of the Art Implementations

Classic architectures of CNNs

7.1 FPNs

about FPNs

- 7.2 PANs
- 7.3 Deformable Convolutions

Classic architectures for Image Segmentation

- 8.1 U-Net
- 8.2 U2-Net

Vision Transformers

- 9.1 DETR
- 9.2 Deformable-DETR
- 9.3 CO-DETR

Bounding-box Object detection

Semantic Segmentation

Density Maps

Part III Generative Models

Difussion Models

13.1 Stable Difussion

Text to Image Difussion Models

Layout to Image Difussion Models

GANs

Style Transfer