

Paper List

Architecture

Deep Residual Learning for Image Recognition, CVPR 2016:

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Residual Networks Behave Like Ensembles of Relatively Shallow Networks, NIPS 2016:

<https://arxiv.org/pdf/1605.06431.pdf>

Designing Network Design Spaces, CVPR 2020:

<https://arxiv.org/pdf/2003.13678.pdf>

Swin Transformer: Hierarchical Vision Transformer using Shifted Windows, ICCV 2021:

<https://arxiv.org/pdf/2103.14030.pdf>

Data Distribution

Unbiased Look at Dataset Bias, CVPR 2011:

https://people.csail.mit.edu/torralba/publications/datasets_cvpr11.pdf

Large-Scale Long-Tailed Recognition in an Open World, CVPR 2019:

<https://arxiv.org/pdf/1904.05160.pdf>

Generalized Out-of-Distribution Detection: A Survey:

<https://arxiv.org/pdf/2110.11334.pdf>

Optimization

Model-Agnostic Meta-Learning for Fast Adaptation of Deep Networks, ICML 2017:

<https://arxiv.org/pdf/1703.03400.pdf>

Lookahead Optimizer: k steps forward, 1 step back, NeurIPS 2019:

<https://arxiv.org/pdf/1907.08610.pdf>

Detection & Segmentation

You Only Look Once: Unified, Real-Time Object Detection, CVPR 2016:

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Feature Pyramid Networks for Object Detection, CVPR 2017:

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K-Net: Towards Unified Image Segmentation, NeurIPS 2021:
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A Style-Based Generator Architecture for Generative Adversarial Networks, CVPR 2019:
<https://arxiv.org/pdf/1812.04948.pdf>

Analyzing and Improving the Image Quality of StyleGAN, CVPR 2020:
<https://arxiv.org/pdf/1912.04958.pdf>

Alias-Free Generative Adversarial Networks, NeurIPS 2021:
<https://arxiv.org/pdf/2106.12423.pdf>

Image Restoration

Deep Image Prior, CVPR 2018:
https://openaccess.thecvf.com/content_cvpr_2018/papers/Ulyanov_Deep_Image_Prior_CVPR_2018_paper.pdf

GLEAN: Generative Latent Bank for Large-Factor Image Super-Resolution, CVPR 2021:
https://openaccess.thecvf.com/content/CVPR2021/papers/Chan_GLEAN_Generative_Latent_Bank_for_Large-Factor_Image_Super-Resolution_CVPR_2021_paper.pdf