
PAPER LIST

Oct 20: Training Deep Neural Networks

[Beyond BatchNorm: Towards a Unified Understanding of Normalization in Deep Learning](#)

Ekdeep Singh Lubana, Robert P. Dick, Hidenori Tanaka. NeurIPS 2021.

<https://github.com/EkdeepSLubana/BeyondBatchNorm>

Nov 3: Convolutional Neural Networks

[RepVGG: Making VGG-style ConvNets Great Again](#)

Xiaohan Ding, Xiangyu Zhang, Ningning Ma, Jungong Han, Guiguang Ding, Jian Sun. CVPR 2021.

<https://github.com/megvii-model/RepVGG>

Nov 10: Understanding and Visualizing CNNs

[There and Back Again: Revisiting Backpropagation Saliency Methods](#)

Sylvestre-Alvise Rebuffi, Ruth Fong, Xu Ji, Andrea Vedaldi. CVPR 2020.

https://github.com/srebuffi/revisiting_saliency

Nov 17: Recurrent Neural Networks

[MomentumRNN: Integrating Momentum into Recurrent Neural Networks](#)

Tan Nguyen, Richard Baraniuk, Andrea Bertozzi, Stanley Osher, Bao Wang. NeurIPS 2020.

<https://github.com/minhtannguyen/MomentumRNN>

Nov 24: Attention and Memory

[When Attention Meets Fast Recurrence: Training Language Models with Reduced Compute](#)

Tao Lei. EMNLP 2021.

<https://github.com/asappresearch/sru>

Dec 8: Autoencoders and Autoregressive Models

[Swapping Autoencoder for Deep Image Manipulation](#)

Taesung Park, Jun-Yan Zhu, Oliver Wang, Jingwan Lu, Eli Shechtman, Alexei A. Efros, Richard Zhang. NeurIPS 2020.

<https://github.com/taesungp/swapping-autoencoder-pytorch>

Dec 15: Generative Adversarial Networks

[Aligning Latent and Image Spaces to Connect the Unconnectable](#)

Ivan Skorokhodov, Grigorii Sotnikov, Mohamed Elhoseiny. ICCV 2021.

<https://universome.github.io/alis>

Dec 22: Variational Autoencoders

[Hierarchical Patch VAE-GAN: Generating Diverse Videos from a Single Sample](#)

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<https://shirgur.github.io/hp-vae-gan/>