PAPER LIST

Nov 1: Training Deep Neural Networks
When Do Flat Minima Optimizers Work?
Jean Kaddour, Linqing Liu, Ricardo Silva, Matt Kusner. NeurIPS 2022.
https://github.com/JeanKaddour/WASAM

Nov 8: Convolutional Neural Networks
Contextual Convolutional Networks
Shuxian Liang, Xu Shen, Tongliang Liu, Xian-Sheng Hua. ICLR 2023.
https://github.com/aliyun/Contextual-Convolutional-Networks

Nov 15: *No Classes - Winter Break*

Nov 22: Understanding and Visualizing CNNs
Towards Improved Input Masking for Convolutional Neural Networks
Sriram Balasubramanian, Soheil Feizi. ICCV 2023.
https://github.com/SriramB-98/layer_masking

Nov 29: Recurrent Neural Networks
Resurrecting Recurrent Neural Networks for Long Sequences
Antonio Orvieto, Samuel L Smith, Albert Gu, Anushan Fernando, Caglar Gulcehre, Razvan Pascanu, Soham De. ICML 2023.

Dec 6: Attention and Transformers
LoRA: Low-Rank Adaptation of Large Language Models
Edward J Hu, yelong shen, Phillip Wallis, Zeyuan Allen-Zhu, Yuanzhi Li, Shean Wang, Lu Wang, Weizhu Chen. ICLR 2023.
https://github.com/microsoft/LoRA

Dec 13: Graph Neural Networks
Vision GNN: An Image is Worth Graph of Nodes
Kai Han, Yunhe Wang, Jianyuan Guo, Yehui Tang, Enhua Wu. NeurIPS 2022.
https://github.com/huawei-noah/Efficient-AI-Backbones/tree/master/vig_pytorch

Dec 20: Generative Adversarial Networks
StyleGAN-T: Unlocking the Power of GANs for Fast Large-Scale Text-to-Image Synthesis
Axel Sauer, Tero Karras, Samuli Laine, Andreas Geiger, Timo Aila. ICML 2023.
https://sites.google.com/view/stylegan-t/

Dec 27: Autoregressive Models
Picture That Sketch: Photorealistic Image Generation From Abstract Sketches
Subhadeep Koley, Ayan Kumar Bhunia, Aneeshan Sain, Pinaki Nath Chowdhury, Tao Xiang, Yi-Zhe Song. CVPR 2023.
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Jan 3: Variational Autoencoders
Efficient-VQGAN: Towards High-Resolution Image Generation with Efficient Vision Transformers
Shiyue Cao, Yueqin Yin, Lianghua Huang, Yu Liu, Xin Zhao, Deli Zhao, Kaigi Huang. ICCV 2023.

Jan 10: Self-supervised Learning
MixMAE: Mixed and Masked Autoencoder for Efficient Pretraining of Hierarchical Vision Transformers
Jihao Liu, Xin Huang, Jinliang Zheng, Yu Liu, Hongsheng Li. CVPR 2023.
https://github.com/Sense-X/MixMIM