Mohammad Saeed Ebrahimi Saadabadi

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Fourth-year Ph.D. student; interested in machine learning, deep learning, applied statistics, and their applications in computer vision. For more information, please refer to www.msed-ebrahimi.com

Education

Present Aug. 2021	**West Virginia University**, Ph.D. in Electrical engineering Focused on representation learning, and metric learning.	*Morgantown, USA*
Sep. 2020 Sep. 2017	**K. N. Toosi University of Technology**, M.Sc. in Biomedical engineering	*Tehran, Iran*
Sep. 2017 Sep. 2012	**K. N. Toosi University of Technology**, B.Sc. in Electrical engineering	*Tehran, Iran*

Research Interests

- Autoregressive Vision
- Un/semi/weakly-supervised Learning
- Weak-To-Strong Generalization
- Dataset Distillation

Selected Papers

* For a complete list of publications please refer to google scholar.

[1] ARoFace: Alignment Robustness to Improve Low-Quality Face Recognition
Saadabadi, Malakshan, Dabouei, Nasrabadi
European Conference on Computer Vision (ECCV), 2024.

[2] Hyperspherical Classification with Dynamic Label-to-Prototype Assignment
Saadabadi, Dabouei, Malakshan, Nasrabadi
2024 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

[3] A quality aware sample-to-sample comparison for face recognition
Saadabadi, Malakshan, Zafari, Mostofa, Nasrabadi
2023 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023.

[4] Joint super-resolution and head pose estimation for extreme low-resolution faces
Malakshan, **Saadabadi**, Mostofa, Soleymani, Nasrabadi
IEEE Access, 2023.

[5] Maximum Relevance Minimum Redundancy Dropout with Informative Kernel Determinantal Point Process
Saffari, Khodayar, **Saadabadi**, Sequeira, Cardoso
Sensors, 2021.

Skills

- Advanced proficiency in Python; basic knowledge in C++ and Matlab.
- Expertise in deep learning frameworks including PyTorch and PyTorch Lightning; experienced with TensorFlow and Keras.
- Skilled in utilizing Python libraries such as NumPy, Pandas, Pillow, Matplotlib, and Scikit-learn for data analysis and model development.
- Comprehensive experience with Convolutional Neural Networks (CNNs), Vision Transformers (ViT), autoregressive image generation, diffusion models, and Distributed Data Parallel (DDP) training.

Courses

- Application of Neural Networks, Deep Learning, Pattern Recognition, Stochastic Systems Theory, Computer Vision, Soft Computing, Digital Signal Processing, and Linear Algebra.

Professional activities

- Reviewer of CVPR, ICLR, AAAI, and WACV.

References

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Mohsen Saffari
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Purdue University Northwest
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