Mohammad Saeed Ebrahimi Saadabadi

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Third-year Ph.D. student; interested in machine learning, deep learning, pattern recognition, mathematics, 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 Exploring several topics within deep learning including deep metric learning, un-/semi- /weakly-supervised learning, adversarial robustness, generative models, dataset distillation. Also, developing face recognition models to enhance the recognition in high-turbulence and long-range images.	*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*

Selected Papers

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

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

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

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

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

Recent projects

- **Long Range Face Recognition**: Supported by the Intelligence Advanced Research Projects Activity (IARPA), contributed to presentations and PI review meetings for the IARPA-Biometric Recognition and Identification at Altitude and Range (BRIAR) program in Spring 2022, Fall 2022, Spring 2023, and Fall 2023. These efforts led to the publications at the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV23), 2022 and 2023 IEEE International Joint Conference on Biometrics (IJCB), and 2023 IEEE International Conference on Image Processing (ICIP).

- **Off-Angle Face Recognition**: Supported by the Office of the Director of National Intelligence (ODNI), conducted research resulting in publication at the IEEE International Joint Conference on Biometrics (IJCB) focusing on profile-to-frontal face recognition techniques. Additionally, authored another paper published in the IEEE Access journal covering challenges in head pose estimation for extremely low-resolution images.

- **Face Morph Detection**: Supported by the Center for Identification Technology Research and the National Science Foundation to develop a morph attack detection framework with strong generalization across unseen attacking strategy, resulting in the publication at 2022 IEEE International Joint Conference on Biometrics (IJCB).

References

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