

Ali DABOUEI

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Ph.D. candidate; interested in machine learning (ML), deep learning, pattern recognition, mathematics and their applications in computer vision. For more information, please refer to www.aldbi.com.

Interests: • Adversarial ML • Network Compression • Interpretable ML • Unsupervised Learning

EDUCATION

PRESENT	West Virginia University , Ph.D. in ELECTRICAL ENGINEERING (GPA: 4.0/4.0)	Morgantown, USA
JAN. 2017	Advisor: Dr. Nasrabadi , Co-advisor: Dr. Dawson	
JAN. 2016	Sharif University of Technology , M.Sc. in ELECTRICAL ENGINEERING (GPA: 3.74/4.0)	Tehran, Iran
SEP. 2013	Advisor: Dr. Jahed	
SEP. 2013	Babol Noshirvani University of Technology , B.Sc. in ELECTRICAL ENGINEERING	Babol, Iran

WORK EXPERIENCE

PRESENT	West Virginia University , GRADUATE RESEARCH ASSISTANT	Morgantown, USA
JAN. 2017	Explored several topics within deep learning including adversarial robustness, generative models, network compression, prediction interpretation, un-/semi-/weakly-supervised learning, and deep metric learning.	
NOV. 2020	Microsoft , COMPUTER VISION RESEARCH INTERN	Redmond, USA
AUG. 2020	Studied the impact of catastrophic forgetting on the natural and adversarial performance of continual learning methods.	

SELECTED PAPERS [SORTED BY DATE]

* For a complete list of publications please refer to [google scholar](https://scholar.google.com/citations?user=ad0046).

[1] Quality-Aware Multimodal Biometric Recognition

Soleymani, **Daboue**, Taherkhani, Iranmanesh, Dawson, Nasrabadi
In *IEEE Transactions on Biometrics, Behavior, and Identity Science (TBIOM)*, 2021.

[2] SuperMix: Supervising the Mixing Data Augmentation [PDF] [Code]

Daboue, Soleymani, Taherkhani, Nasrabadi
In *2021 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.

[3] Self-Supervised Wasserstein Pseudo-Labeling for Semi-Supervised Image Classification [PDF]

Taherkhani, **Daboue**, Soleymani, Nasrabadi
In *2021 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.

[4] Exploiting Joint Robustness to Adversarial Perturbations [PDF]

Daboue, Soleymani, Taherkhani, Dawson, Nasrabadi
In *2020 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

[5] Transporting Labels via Hierarchical Optimal Transport for Semi-Supervised Learning [PDF]

Taherkhani, **Daboue**, Soleymani, Dawson, Nasrabadi
In *2020 European conference on computer vision (ECCV)*, 2020.

[6] Attribute Adaptive Margin Softmax Loss using Privileged Information [PDF]

Iranmanesh, **Daboue**, and Nasrabadi.
In *2020 British Machine Vision Conference (BMVC)*, 2020.

[7] SmoothFool: An Efficient Framework for Computing Smooth Adversarial Perturbations [PDF] [Code]

Daboue, Taherkhani, Soleymani, Dawson, Nasrabadi
In *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

[8] Boosting Deep Face Recognition via Disentangling Appearance and Geometry

Daboue, Taherkhani, Soleymani, Dawson, Nasrabadi
In *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

[9] Robust Facial Landmark Detection via Aggregation on Geometrically Manipulated Faces

Iranmanesh, **Daboue**, Soleymani, Kazemi, Nasrabadi
In *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

[10] [A Weakly Supervised Fine Label Classifier Enhanced by Coarse Supervision](#)

Taherkhani, Kazemi, **Dabouei**, Dawson, Nasrabadi

In 2019 International Conference on Computer Vision (ICCV), 2019.

[11] [Fast Geometrically-perturbed Adversarial Faces](#) [\[PDF\]](#) [\[Code\]](#)

Dabouei, Soleymani, Dawson, Nasrabadi

In 2019 IEEE Winter Conference on Applications of Computer Vision (WACV), 2018.

[12] [Multi-Level Feature Abstraction from Convolutional Neural Networks for Multimodal Biometric Identification](#)

Soleymani, **Dabouei**, Kazemi, Dawson, Nasrabadi

In 2018 International Conference on Pattern Recognition, 2018.

PATENTS

- [Cross-matching contactless fingerprints against legacy contact-based fingerprints.](#)
- [Fingerprint distortion rectification using deep convolutional neural networks.](#)

AWARDS

- Best Student Paper Award in 9th IEEE International Conference on Biometrics, 2018.
- IAPR Best Biometrics Student Award in IAPR International Conference on Biometrics, 2018.

REFERENCES

Nasser M. Nasrabadi

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