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Ph.D. in Electrical Engineering; interested in machine learning, deep learning, pattern recognition, mathematics, and their applications in computer vision and biomedical image analysis. For more information, please refer to www.aldbi.com.

WORK EXPERIENCE

PRESENT	Carnegie Mellon University , POSTDOCTORAL RESEARCHER	<i>Pittsburgh, USA</i>
APRIL 2022	Developing deep models for video anomaly/highlight/moment detection and multi-modal video analysis tools. Also, exploring the theory of un-/semi-/weakly-supervised learning and its applications in computer vision and biomedical image analysis.	
MAY 2022	West Virginia University , GRADUATE RESEARCH ASSISTANT	<i>Morgantown, USA</i>
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	<i>Redmond, USA</i>
AUG. 2020	Studied the impact of catastrophic forgetting on the natural and adversarial performance of continual learning methods.	

EDUCATION

MAY 2022	West Virginia University , Ph.D. in ELECTRICAL ENGINEERING (GPA: 4.0/4.0)	<i>Morgantown, USA</i>
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)	<i>Tehran, Iran</i>
SEP. 2013	Advisor: Dr. Jahed	
SEP. 2013	Babol Noshirvani University of Technology , B.Sc. in ELECTRICAL ENGINEERING	<i>Babol, Iran</i>

SELECTED PAPERS [SORTED BY DATE]

* For a complete list of publications please refer to [google scholar](#).

[1] [Revisiting Outer Optimization in Adversarial Training](#)

Dabouei, Taherkhani, Soleymani, Nasrabadi
In 2022 European conference on computer vision (ECCV), 2022.

[2] [Quality-Aware Multimodal Biometric Recognition](#)

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

[3] [SuperMix: Supervising the Mixing Data Augmentation \[PDF\] \[Code\]](#)

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

[4] [Self-Supervised Wasserstein Pseudo-Labeling for Semi-Supervised Image Classification \[PDF\]](#)

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

[5] [Exploiting Joint Robustness to Adversarial Perturbations \[PDF\]](#)

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

[6] [Transporting Labels via Hierarchical Optimal Transport for Semi-Supervised Learning \[PDF\]](#)

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

[7] [Attribute Adaptive Margin Softmax Loss using Privileged Information \[PDF\]](#)

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

[8] [SmoothFool: An Efficient Framework for Computing Smooth Adversarial Perturbations \[PDF\] \[Code\]](#)

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

[9] [Boosting Deep Face Recognition via Disentangling Appearance and Geometry](#)

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

[10] [Robust Facial Landmark Detection via Aggregation on Geometrically Manipulated Faces](#)

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

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

Taherkhani, Kazemi, **Dabouei**, Dawson, Nasrabadi
In 2019 International Conference on Computer Vision (ICCV), 2019.

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

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

[13] [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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