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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](http://www.aldbi.com).

## WORK EXPERIENCE

PRESENT	<b>Carnegie Mellon University</b> , 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	<b>West Virginia University</b> , 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	<b>Microsoft</b> , 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

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

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

## AWARDS

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- 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

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### [Nasser M. Nasrabadi](#)

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West Virginia University  
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### [Omid Dehzangi](#)

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