

AmirsinaTorfi

MACHINE LEARNING & DEEP LEARNING EXPERT

About

[LinkedIn](#)
[GitHub](#)
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Contact

amirsina.torfi@gmail.com

Languages

Persian, English

Programming

Python, MATLAB,
JAVA, LATEX

Web

CSS3 & HTML5

Frameworks & Packages

Caffe, Tensorflow,
Theano, CNTK, keras,
OpenCV, Scikit-learn,
Pytorch

Operating Systems

Ubuntu, Windows, Mac

interests

Machine Learning, Deep Learning, Data Mining, Computer Vision, Natural Language Processing, Speech Recognition.

education

Since 2018	Ph.D. in Computer Science <i>Machine Learning, Deep Learning, Data Mining & NLP.</i>	Virginia Tech
2016–2017	Ph.D. in Electrical Engineering <i>Machine Learning & Computer Vision.</i>	West Virginia University
2015–2016	Visiting student in Electrical Engineering <i>Image Processing & Pattern Recognition.</i>	University of Maryland College Park
2015–2016	Graduate Student in Electrical Engineering <i>Machine Learning & Data Mining.</i>	Howard University
2011–2014	Master of Science in Information Technology <i>Information Theory & Communication.</i>	Iran Univ of Science & Technology
2006–2011	Bachelor of Science in Electrical Engineering <i>Communication Systems</i>	Iran Univ of Science & Technology

experience

2018 current	Data Analytics Center, Virginia Tech <i>-Using Deep Learning techniques for coding of civil unrest events</i>	Graduate Research Assistant
2016 2018	Biometrics Center, West Virginia University <i>-Using Deep Learning techniques for discriminant analysis and face verification</i> <i>- Implementing deep learning for speech recognition and sound verification using multi-modality.</i>	Graduate Research Assistant
2015 2016	University of Maryland, College Park <i>-Developing an open source software for QR Codes Pattern Recognition and Message Extraction</i> <i>-Successfully detect and reconstruct perfect QR-code pattern and then decode and extract the message and information within.</i>	Visiting Student

publications

- Amirsina **Torfi**, Seyed Mehdi Iranmanesh, Nasser Nasrabadi, and Jeremy Dawson. 3d convolutional neural networks for cross audio-visual matching recognition. *IEEE Access*, 5:22081–22091, 2017 ([Link](#))
- Amirsina **Torfi**, Nasser M Nasrabadi, and Jeremy Dawson. Text-independent speaker verification using 3d convolutional neural networks. *arXiv preprint arXiv:1705.09422*, 2017 ([Link](#))

- Xiaoxia Sun, Amirsina **Torfi**, and Nasser Nasrabadi. Deep siamese convolutional neural networks for identical twins and look-alike identification. (*accepted to be published under press*), 2017
- Amisina **Torfi**, Sobhan Soleymani, and Vahid Tabataba Vakili. On the construction of polar codes for achieving the capacity of marginal channels. *arXiv preprint arXiv:1707.04512* (Accepted to be published in 55th Annual Allerton Conference on Communication, Control, and Computing), 2017 ([Link](#))
- Amirsina **Torfi**, Sobhan Soleymani, Seyed Mehdi Iranmanesh, Hadi Kazemi, Rouzbeh A Shirvani, and Vahid T Vakili. Polar coding for achieving the capacity of marginal channels in nonbinary-input setting. *Information Sciences and Systems (CISS), 2017 51st Annual Conference on*, pages 1–6, 2017 ([Link](#))
- French Pope III, Rouzbeh A Shirvani, Mugizi Robert Rwebangira, Mohamed Chouikha, Ayo Taylor, Andres Alarcon Ramirez, and Amirsina **Torfi**. Automatic detection of small groups of persons, influential members, relations and hierarchy in written conversations using fuzzy logic. *Proceedings of the International Conference on Data Mining (DMIN), Los Vegas, USA, 2015* ([Link](#))

Projects

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| 2017 | <p>TensorFlow World (project page) Developer</p> <ul style="list-style-type: none"> • This open source project is aimed to provide simple and ready-to-use tutorials for TensorFlow • This project has been <u>GitHub trending repository of the month</u> and also ranked in the top <u>150 open source projects</u> in top GitHub repositories for Python language |
| 2017 | <p>Lip Reading - Cross Audio-Visual Recognition using 3D Convolutional Neural Networks (project page) Developer</p> <ul style="list-style-type: none"> • This code is aimed to provide the implementation for Coupled 3D Convolutional Neural Networks for audio-visual matching. • Lip-reading can be a specific extension for this work. • GitHub trending repository of the day & week |
| 2017 | <p>3D Convolutional Neural Networks for Speaker Verification (project page) Developer</p> <ul style="list-style-type: none"> • This code is aimed to provide the implementation for Speaker Verification (SR) by using 3D convolutional neural networks following the SR protocol • GitHub trending repository of the day & week |
| 2017 | <p>SpeechPy - A Library for Speech Processing and Recognition (project page) Developer</p> <ul style="list-style-type: none"> • This developed package provides most frequent used speech features including MFCCs and filterbank energies alongside with the log-energy of filterbanks |
| 2016 | <p>Face Recognition using Tensorflow (project page) Developer</p> <ul style="list-style-type: none"> • This is a TensorFlow implementation of the face recognizer described in the paper FaceNet: A Unified Embedding for Face Recognition and Clustering • The project also uses ideas from the paper A Discriminative Feature Learning Approach for Deep Face Recognition as well as the paper Deep Face Recognition from the Visual Geometry Group at Oxford • This project has been GitHub trending repository |