Dr. Mehran Taghipour-Gorjikolaie (MTG) 8 August 2020

PhD in Electronic Engineering (Machine Learning)
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Field of Interests

- Application of pattern recognition
- Machine Learning
- Artificial Intelligence and Computational Intelligence
- Optimization Algorithms
- Biometrics
- Medical Image processing

Education Information

Ph. D. (2012-2016) ***Electrical Engineering (Machine learning)*** *
University of Birjand, Birjand, South Khorasan, Iran
Grade Point Average: *19.04 out of 20*
Supervisor: Dr. Seyyed Mohammad Razavi

Visiting student (2015)
PRA Lab, University of Cagliari, Cagliari, Italy.
Supervisor: Prof. Fabio Roli

M. Sc. (2009-2011) ***Electrical Engineering (Electronic - System)*** *
University of Birjand, Birjand, South Khorasan, Iran
Grade Point Average: *18.99 out of 20*
Supervisor: Dr. Seyyed Mohammad Razavi

B. Sc. (2004-2008) * *Electrical Engineering (Electronic)* *
University of Mazandaran (Babol Noshirvani University of Technology), Babol, Mazandaran, Iran
Grade Point Average: *15.59 out of 20*
Supervisor: Dr. Gol

Awards & Honors

- Won the Elite student award from Iran National Elites Foundation at 2016.
- Achieving 1st rank in M. Sc. Degree, among Master of Science students in Electronic Department, Faculty of Electric and Computer Engineering, University of Birjand.
- Member of Young Researchers Club in Iran
- Member of Iranian Society of Machine Vision and Image Processing (ISMVIP) (http://www.ismvip.ir/en/).
- Achieving 5th rank in B. Sc. Degree, among more than 50 Bachelor of Science students in Electronic Department, Faculty of Engineering, University of Mazandaran (Babol Noshirvani University of Technology).
- Won the scholarship for studying in Italy as visiting student from University of Birjand.
- Won the grant for doing project in the field of Pattern Recognition in the University of Cagliari.

Skills and Software

- Matlab
- Python
- Information Fusion
- Deep Learning
- Application of different kinds and topologies of Artificial Neural Networks (ANNs) for classification, clustering and prediction purpose.
- Application of different kinds and version of Fuzzy logic and Fuzzy sets for classification, clustering and prediction purpose.
- Application of optimization methods and algorithms for solving engineering problems (Genetic Algorithm (GA), Particle Swarm Optimization (PSO), Gravitational Search Algorithm (GSA), Ant Colony Optimization (ACO) and etc)
- Designing intelligent fault detection system.
- Signal processing Methods (such as; FFT, DFT, STFT, Wavelet, and etcetera).

Work experience

Assistant Professor at university of Birjand from September 2016 until present.

ISI, Scopus and ISC indexed papers

1. **Mehran Taghipour-Gorjikolaie**, J. Sadri, and S. M. Razavi, "***Deep Adaptive Feature Enrichment***", Expert Systems with Applications, Vol. 162, 30 December 2020. (Impact Factor: 5.452)

2. M. Izadpanahkakhk, S. M. Razavi, **Mehran Taghipour-Gorjikolaie**, S. H. Zahiri and A. Uncini, "***Deep Region of Interest and Feature Extraction Models for Palmprint Verification Using Convolutional Neural Networks Transfer Learning***" ***Applied Science***, Vol. 8, No. 7, 2018, 1-20. (Impact Factor: 1.689)

3. **MehranTaghipour-Gorjikolaie**, S. M. Razavi and N. Mehrshad, "***Multimodal biometric identification system based on finger-veins using hybrid rank–decision-level fusion technique***" ***IEEJ Transactions on Electrical and Electronic Engineering***, Vol. 12, No. 5, 2017, 728-735. (Impact Factor: 0.517)

4. **Mehran Taghipour-Gorjikolaie**, and N. Valipour-Motlagh, "***Predicting wettability behavior of fluorosilica coated metal surface using optimum neural network***" ***Surface Science***, Vol. 668, 2018, 47-53. (Impact Factor: 2.062)

5. N. Valipour-Motlagh and **MehranTaghipour-Gorjikolaie**, "***Fuzzy based models for estimating static contact angle and sliding angle of liquid drops***" ***Progress in Organic Coatings***, Vol. 119, 2018, 183-193. (Impact Factor: 2.89)

6. N. Valipour-Motlagh and **MehranTaghipour-Gorjikolaie**, "***Comparison of heuristic methods for developing optimized neural network based models to predict amphiphobic behavior of fluorosilica coated surfaces***" ***Surface and Coatings Technology***, Vol. 349, 2018, 289-295. (Impact Factor: 2.538)

7. M. Yazdani-Asrami, **Mehran Taghipour-Gorjikolaie**, S. M. Razavi, S. A. Gholamian, "***A novel intelligent protection system for power transformers considering possible electrical faults, inrush current, CT saturation and over-excitation***" **Electrical Power and Energy Systems**, Vol. 64, 2015, 1129–1140. (Impact Factor: 3.289)

8. F. Jafarian, **M. Taghipour**, H. Amirabadi, "***Application of Artificial Neural Network and Optimization Algorithms for Optimizing Surface Roughness, Tool Life and Cutting Forces in Turning Operation" Journal of Mechanical Science and Technology*** (Springer), Vol. 27, No. 5, 2013, 1469-1477. (Impact Factor: 1.128)

9. M. Izadpanahkakhk, S. M. Razavi, **Mehran Taghipour-Gorjikolaie**, S. H. Zahiri and A. Uncini, "***Joint feature fusion and optimization via deep discriminative model for mobile palmprint verification***" Journal of Electronic Imaging, Vol. 28, No. 4, 2019, 1-12. (Impact Factor: 0.884)

10. M. Izadpanahkakhk, S. M. Razavi, **Mehran Taghipour-Gorjikolaie**, S. H. Zahiri and A. Uncini, "***Novel mobile palmprint databases for biometric authentication***" International Journal of Grid and Utility Computing, Vol. 10, No. 5, 2019, 465-474.

11. V. K. Limouni, S.A. Gholamian, and **Mehran Taghipour Gorjikolaie**, "***Inter -Turn Fault Detection of PMSM Based on Fuzzy logic and Discrete Wavelet Transform Using Unsupervised Clustering Approach***" ***Journal of Advances in Computer Research***, Vol. 7, No. 2, May 2016.

12. M. Taghipour-Gorjikolaie, S. M. Razavi, M. A. ShamsiNejad, "***Intelligent Determining Amount of Inter-Turn Stator Winding Fault in Permanent Magnet Synchronous Motor Using an Artificial Neural Network Trained by Improved Gravitational Search Algorithm***" ***Journal of Advances in Computer Research***, Vol. 6, No. 1, February 2015.

13. M. Marzani, S. M. Razavi, **Mehran Taghipour-Gorjikolaie**, "***An Applied Method to Online Recognition of Farsi Handwritten Isolated Characters Using Knowledge of Main Body and Tiny Movements Simultaneously***" ***Computational Intelligence In Electrical Engineering***, Vol. 6, No. 2, 2015, pp. 87-100.

14. **Mehran Taghipour- GorjiKolaie**, I. Miri, S. M. Razavi and J. Sadri, "***Persian Handwritten Digit Recognition Using Particle Swarm Probabilistic Neural Network***" ***Journal of Iranian Association of Electrical and Electronics Engineers (JIAEEE)***, Vol. 12, No. 3, 2015.

15. Mehran Taghipour-Gorjikolaie, M. Yazdani-Asrami, S. A. Gholamian, and S. M. Razavi, "***A Novel Approach for Discrimination Magnetizing Inrush Current and Internal Fault in Power Transformers Based on Neural Network***" **Journal of Advances in Computer Research**, Vol. 6, No. 3, August 2015.

16. M. Yazdani-Asrami, **M. Taghipour-Gorjikolaie,** and S. A. Gholamian, "***Comparison of Several Improved Versions of Particle Swarm Optimizer Algorithm for Parameter Estimation of Squirrel-Cage Induction Motors***" ***Jurnal Intelek***, Vol 8, No.2, 2014, pp. 27-35.

17. A. R. Moradi, M. Ebadian, M. Yazdani-Asrami, **M. Taghipour,** "***Artificial Intelligence Based Techniques for Distinguishing Inrush Current from Faults in Large Power Transformers***" ***International Review of Electrical Engineering***, Vol. 6, No. 5, October 2011.

18. S. M. Razavi, **Mehran Taghipour**, and E. Kabir, "***Improvement in Performance of Neural Network for Persian Handwritten Digits Recognition Using FCM Clustering***" ***World Applied Sciences Journal***, Vol. 9, No. 8, 2010, pp. 898-906.

Conference papers

1. M. A. ShamsiNejad and **M. Taghipour**, "Inter-Turn Stator Winding Fault Diagnosis and Determination of Fault Percent in PMSM" ***IEEE Applied Power Electronics Colloquium (IAPEC)***, 2011, pp. 128-131.

2. **M. Taghipour**, A. R. Moradi, and M. Yazdani-Asrami, "Identification of Magnetizing Inrush Current in Power Transformers using GSA Trained ANN for Educational Purposes" ***IEEE Conference on Open Systems (ICOS)***, 2010, pp. 23-27.

3. **Taghipour Mehran**, Sadri Javad, Miri Esmaiel, and Taghipour Mehrdad, "A Constricted Particle Swarm Optimization Method for Pair-Wise Alignment of Biological Sequences" ***Human Genome Meeting***, 2011.

4. H. Maskani, M. Yazdani-Asrami, **Mehran Taghipour**, A. Darzi, A. Moradi,and H. Falaghi, " Gravitational Search Algorithm Optimization for Economic Dispatch of Power Systems Considering Valve-Point Effect" ***25th International Power System Conference (PSC 2010)***.

References

1. Associate Professor Dr. ***Seyyed Mohammad Razavi***

Department of Electronic Engineering, Faculty of Electrical and Computer Engineering, University of Birjand, Birjand, Iran.

PhD in Electronic Engineering

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Homepage: https://scholar.google.com/citations?user=iSd4OusAAAAJ&hl=en

2. Dr. Mohammad Yazdani-Asrami

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