

In the Name of God

**Curriculum Vitae (C.V.)
Maryam Imani**

Associate Professor
Electrical and Computer Engineering Faculty (communication)
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Education

Postdoctoral Fellow: Electrical and Computer Engineering Faculty, Tarbiat Modares University, Tehran, Iran, Nov. 2015-2016.

Research title: Extraction and Fusion of Features from Hyperspectral Images for Improvement of Classification Accuracy

Ph.D.: Electrical and Computer Engineering Faculty, Tarbiat Modares University, Tehran, Iran, Sept. 2012- 2015.

Electrical Engineering/ Telecommunication

Ph.D. Thesis: Feature Extraction Using Limited Training Samples for Hyperspectral Images

M.SC.: Department of Electrical Engineering, Faculty of Engineering, Shahed University, Tehran, Iran, Sept. 2009-2011.

Electrical Engineering/ Telecommunication

M.SC. Thesis: MIMO-OFDM Channel Estimation Using Training Symbols.

B.SC.: Department of Electrical Engineering, Faculty of Engineering, Shahed University, Tehran, Iran, Sept. 2005-2009.

Electrical Engineering/ Telecommunication

B.SC. Thesis: MIMO-OFDM System Simulation and Investigation of Channel Parameters' Changes in System Performance

Research Interests

- Pattern Recognition and Machine Learning
- Signal and Image Processing
- Remote Sensing

Honors and Awards

1. Top Ten Percent Achievements in 3rd KANS Scientific Competition, 2022.
2. Best paper award in “31th International Conference on Electrical Engineering (ICEE 2023)”, Tehran, Iran, 9-11 May 2023.
3. Awarded “Dr. Taghi Ebtekar” Young Researcher Award, Center for Peace and Environment, Iran, March 2022.
4. Ranked among 100,000 most cited scientists, the top 2 percent scientists in 2021 (based on single year impact), according to Stanford University reports based on data from Scopus.
5. Winner at “3rd National Festival of Women and Science, (Maryam Mirzakhani Award)”, Dec. 2020.
6. Best paper award in “4th International conference on Pattern Recognition and Image Analysis (IPRIA 2019)”, Sharif University of Technology, Tehran, Iran, 6 – 7 March, 2019.
7. Best paper award in Geoscience and remote sensing category in International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES 2018), Bali-Indonesia, September 20-21, 2018.
8. Publons' global Peer Review Awards 2018 for placing in the top 1% of reviewers in Geosciences, September 2018.
9. Best Ph.D. Thesis Award from the IEEE Iran Section, 3 May 2017.
10. The second place recipient of the 2016 ERDAS Award for Best Scientific Paper in Remote Sensing from “American Society for Photogrammetry and Remote Sensing”, April 2016.
11. Awarded "Dr. Kazemi Ashtiani" Research Grant Award for Young Assistant Professor, Iran's National Elite Foundation, 2018.
12. Awarded “Shahid Chamran Scientific Award for Postdoc Researchers”, Iran's National Elite Foundation, 2016.
13. Top postdoctoral researcher, Tarbiat Modares University, 2016.
14. Ranked first among Ph.D. graduates of Communication in Electrical and Computer engineering Department, Tarbiat Modares University, Tehran, Iran, Sep. 2015.
15. Best Ph.D. Thesis Award, Tarbiat Modares University, 2015.
16. Awarded Member of Iran's National Elite Foundation, 2015-until now.

Teaching Experience

- Statistical Pattern Recognition, Tarbiat Modares University, from fall 2018 until now.
- Fuzzy Systems, Tarbiat Modares University, from winter 2018 to winter 2021.
- Stochastic Processes, from fall 2021 to fall 2022.
- Wireless communication, from winter 2021 to winter 2022.

Membership in Societies

1. Student Branch Counselor of the IEEE with Tarbiat Modares University, Jan. 2022-Jan. 2024
2. IEEE Senior member-From Feb. 2022
3. IEEE member of Geoscience and Remote Sensing Society (GRSS)
4. IEEE member of Young Professionals
5. IEEE member of Women in Engineering
6. Member of Iranian Society of Smart Grid

Reviewer of Journals

1. IEEE Transactions on Geoscience and Remote Sensing (TGRS)
2. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS)
3. IEEE Transactions on Cybernetics
4. IEEE Systems Journal
5. IEEE Transactions on Neural Networks and Learning Systems (IEEE TNNLS)
6. IEEE Transactions on Power Systems
7. IEEE Geoscience and Remote Sensing Magazine (GRSM)
8. IEEE Geoscience and Remote Sensing Letters
9. IEEE Access
10. Proceedings of the IEEE
11. IET image processing
12. Information Fusion
13. Pattern Recognition
14. Neurocomputing
15. ISPRS Journal of Photogrammetry and Remote Sensing
16. International Journal of Remote Sensing
17. Remote Sensing Letters
18. European Journal of Remote Sensing
19. Remote Sensing
20. Geocarto International
21. Applied & Experimental Mathematics
22. Journal of Visual Communication and Image Representation
23. Scientific Reports
24. Infrared Physics and Technology
25. Digital Signal Processing

26. Journal of Computational and Graphical Statistics
27. International Journal of Image and Data Fusion
28. Chemometrics and Intelligent Laboratory Systems
29. Heliyon
30. Sensors
31. Electronics
32. Earth Science Informatics
33. Chemosphere
34. Biomedical Signal Processing and Control
35. AUT Journal of Modeling and Simulation
36. The ISC International Journal of Information Security (ISeCure)
37. Journal of AI and Data Mining (JADM)
38. Signal and Data Processing (Printed in Persian)
39. Journal of Space Science & Technology (Printed in Persian)
40. Scientific Journal of Computational Intelligence in Electrical Engineering (Printed in Persian)
41. Electronics Industries (Printed in Persian)

Publications- Journal papers

[97] Maryam Imani, Alzheimer's Diseases Diagnosis Using Fusion of High Informative BiLSTM and CNN Features of EEG Signal, Biomedical Signal Processing and Control, vol. 86, Part C, 105298, Sept. 2023.

[96] Maryam Imani, An Iterative PolSAR Image Classification Method With Utilizing Scattering and Contextual Information, Multimedia Tools and Applications, 2023.

[95] Mohamad Ebrahim Aghili, Maryam Imani, Hassan Ghassemian, Clustering Based Background Learning for Hyperspectral Anomaly Detection, The Egyptian Journal of Remote Sensing and Space Sciences, vol. 26, no. 3, pp. 477–487, 2023.

[94] Maryam Imani, Adaptive Window Based Collaborative Representation for Hyperspectral Anomaly Detection with Fusion of Local and Global Information, The Egyptian Journal of Remote Sensing and Space Sciences, vol. 26, no. 2, pp. 369–380, 2023.

[93] Hosein Eskandari, Maryam Imani, Mohsen Parsa Moghaddam, Best-tree wavelet packet transform bidirectional GRU for short-term load forecasting, The Journal of Supercomputing, vol. 79, pp. 13545–13577, 2023.

- [92] Beheshteh Khosravi, Maryam Imani, Hassan Ghassemian, Shaped Patch Based Nonparametric Discriminant Analysis for Hyperspectral Image Classification through the CNN Model, *International Journal of Remote Sensing*, vol. 44, no. 6, pp. 1789–1819, 2023.
- [91] Amir Hossein Ghazvinizadeh, Maryam Imani, Hassan Ghassemian, Residual Network Based On Entropy-Anisotropy-Alpha Target Decomposition for Polarimetric SAR Image Classification, *Earth Science Informatics*, pp.16:357–366, 2023.
- [90] Maryam Imani, Concentration Estimation of Air Pollutants (PM_{2.5} and PM₁₀) Using MODIS Satellite Data, Deep Neural Network and Random Forest, *Soft Computing Journal*, 2023 (Printed in Persian).
- [89] Ali Farajzadeh, Maryam Imani, Shahram Mohammadi, Hyperspectral Image Super Resolution Using Anomaly Weighted Gabor Based CNN, *International Journal of Information and Communication Technology Research (IJICTR)*, vol. 15, no. 2, pp. 19-28, 2023.
- [88] Maryam Imani, Entropy/Anisotropy/Alpha Based 3DGabor Filter Bank for PolSAR Image Classification, *Geocarto International*, vol. 37, no. 27, pp. 18491–18519, 2022.
- [87] Roohollah Keshvari, Maryam Imani, Mohsen Parsa Moghaddam, Short Term Load Forecasting Using Empirical Mode Decomposition, Wavelet Transform and Support Vector Regression, *Signal and Data Processing*, vol. 19, no. 3, pp. 35-48, 2022 (Printed in Persian).
- [86] Shiva Aghapour Maleki, Hassan Ghassemian, Maryam Imani, Spectrum Similarity-Based Quality Assessment Metric, *International Journal of Information and Communication Technology Research (IJICTR)*, vol. 14, no. 4, pp. 19-27, 2022.
- [85] Maryam Imani, Scattering and Contextual Features Fusion Using a Complex Multi-Scale Decomposition for Polarimetric SAR Image Classification, *Geocarto International*, vol. 37, no. 27, pp. 17216–17241 2022.
- [84] Abbas Kakoolvand, Maryam Imani, Hassan Ghassemian, Unsupervised Change Detection in SAR Images Based on Generalized Likelihood Ratio Test and a Two-Stage Morphological Filter, *International Journal of Remote Sensing*, vol. 43, no. 12, pp. 4630–4662, 2022.
- [83] Maryam Imani, Spatial and Polarimetric Information Fusion Using Residual Network for Polarimetric Synthetic Aperture Radar Image Classification, *IET Radar, Sonar & Navigation*, vol. 16, no. 12, pp. 1963-1976, 2022.
- [82] Maryam Imani, Polarimetric SAR Image Classification Using Binary Coding-Based Polarimetric-Morphological Features, *IET Image Processing*, vol. 16, no. 14, pp. 3715– 3736, 2022.

- [81] Maryam Imani, Fuzzy-based weighting long short-term memory network for demand forecasting, *The Journal of Supercomputing*, vol. 79, pp. 435–460, 2023.
- [80] Maryam Imani, Convolutional Neural Networks with Different Dimensions for POLSAR Image Classification, *Computational Sciences and Engineering*, vol. 2, no. 1, pp. 69-79, 2022.
- [79] Ali Farajzadeh, Shahram Mohammadi, Maryam Imani, Hyperspectral image super-resolution using multi-scale decomposition and convolutional neural network based on relation type between low- and high-resolution images, *Signal, Image and Video Processing*, vol. 17, pp. 361–369, 2023.
- [78] Maryam Imani, Two-step discriminant analysis based multi-view polarimetric SAR image classification with high confidence, *Scientific Reports*, vol. 12, 5984, 2022.
- [77] Hosein Eskandari, Maryam Imani, Mohsen Parsa Moghaddam, Power Grid Stability Identification Using High Discriminative Factors, *International Journal of Electronics Letters*, vol. 11, no. 2, pp. 193–202, 2023.
- [76] Maryam Imani, Median-Mean Line Based Collaborative Representation for PolSAR Terrain Classification, *The Egyptian Journal of Remote Sensing and Space Sciences*, vol. 25, pp. 281–288, 2022.
- [75] Maryam Imani, Nearest Polarimetric and Spatial Neighbours for Feature Space Projection and Guidance Image-Based Spatial Filtering for PolSAR Image Classification, *Remote Sensing Letters*, vol. 13, no. 4, pp. 406–417, 2022.
- [74] Maryam Imani, Low Frequency and Radar's Physical Based Features for Improvement of Convolutional Neural Networks for PolSAR Image Classification, *The Egyptian Journal of Remote Sensing and Space Sciences*, vol. 25, pp. 55–62, 2022.
- [73] Maryam Imani, Polarimetric SAR Image Classification Using Collaborative Representation Based Nearest Subspace, *Signal Image and Video Processing*, vol. 16, pp. 1577–1585, 2022.
- [72] Ali Farajzadeh, Shahram Mohammadi, Maryam Imani, High Performance Image Super-resolution Using Convolutional Neural Networks and Nonsampled Contourlet Transform, *Journal of Communications Technology and Electronics*, vol. 67, no. 4, pp. 418–429, 2022.
- [71] Maryam Imani, Convolutional Kernel-based covariance descriptor for classification of polarimetric synthetic aperture radar images, *IET Radar, Sonar and Navigation*, vol. 16, no. 3, 578–588, 2022.
- [70] Maryam Imani, PolSAR Classification Using Contextual Based Locality Preserving Projection and Guided Filtering, *International Journal of Information and Communication Technology Research (IJICTR)*, vol. 13, no. 2, pp. 29-38, 2021.

- [69] Maryam Imani, Guided Ridge Regression-Based Polarimetric-Spatial Feature Extraction for Classification of Polarimetric SAR Images, the CSI Journal on Computer Science and Engineering (CSI-JCSE), vol. 18, no. 1, pp. 44-53, 2020.
- [68] Roohollah Keshvari, Maryam Imani, Mohsen Parsa Moghaddam, A Clustering-Based Short-Term Load Forecasting Using Independent Component Analysis and Multi-Scale Decomposition Transform, The Journal of Supercomputing, vol. 78, pp. 7908–7935, 2022.
- [67] Hosein Eskandari, Maryam Imani, Mohsen Parsa Moghaddam, Short-Term Load Forecasting By Learning Load Characteristics Using Deep Convolutional and Recurrent Networks, Electronics Industries, vol. 12, no. 2, pp. 35-46, 2021 (Printed in Persian).
- [66] Maryam Imani, Integration of the k -nearest neighbours and patch-based features for PolSAR image classification by using a two-branch residual network, Remote Sensing Letters, vol. 12, no. 11, pp. 1112–1122, 2021.
- [65] Maryam Imani, Automatic Diagnosis of Coronavirus (COVID-19) Using Shape and Texture Characteristics Extracted From X-Ray and CT-Scan Images, Biomedical Signal Processing and Control, vol. 68, 102602, 2021.
- [64] Maryam Imani, Electrical Load-Temperature CNN for Residential Load Forecasting, Energy, vol. 227, 2021.
- [63] Hosein Eskandari, Maryam Imani, Mohsen Parsa Moghaddam, Convolutional and Recurrent Neural network Based Model for Short-Term Load Forecasting, Electric Power Systems Research, vol. 195, 2021.
- [62] Maryam Imani, A Random Patches Based Edge Preserving Network for Land Cover Classification Using Polarimetric Synthetic Aperture Radar Images, International Journal of Remote Sensing, vol. 42, no. 13, pp. 4946–4964, 2021.
- [61] Maryam Imani, Particulate Matter (PM_{2.5} and PM₁₀) Generation Map Using MODIS Level-1 Satellite Images and Deep Neural Network, Journal of Environmental Management, vol. 281, 111888, 2021.
- [60] Mohammad Ghassemi, Hassan Ghassemian, Maryam Imani, Hyperspectral Image Classification by Optimizing Convolutional Neural Networks based on Information Theory and 3D-Gabor Filters, International Journal of Remote Sensing, vol. 42, no. 11, pp. 4383–4413, 2021.
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- [58] Maryam Imani, Customer Churn Prediction in Telecommunication Using Machine Learning: A Comparison Study, *AUT Journal of Modeling and Simulation (Amirkabir International Journal of Modeling, Identification, Simulation & Control)*, vol. 52, no. 2, pp. 229-250, 2020.
- [57] Maryam Imani, Target Detection System Design For Domestic Areas In Iran: Case Study In Abadan And Ahvaz Using Satellite Multispectral Images of Landsat 8 And Sentinel 2, *Journal of Technology in Aerospace Engineering (printed in Persian)*, vol. 4, no. 3, 2020.
- [56] Maryam Imani, Sparse and collaborative representation-based anomaly detection, *Signal Image and Video Processing*, vol. 14, no. 8, pp. 1573–1581, 2020.
- [55] Maryam Imani, Deep Learning Based Electricity Demand Forecasting in Different Domains, *Iranian Journal of Energy and Environment*, vol. 11, no. 1, pp. 33-39, 2020.
- [54] Maryam Imani, A Multi-Scale Transform Method Based on Morphological Operators for Pansharpening, *AUT Journal of Modeling and Simulation (Amirkabir International Journal of Modeling, Identification, Simulation & Control)*, vol. 52, no. 1, pp. 97-116, 2020.
- [53] Maryam Imani, Texture Feed Based Convolutional Neural Network for Pansharpening, *Neurocomputing*, vol. 398, pp. 117–130, 2020.
- [52] Maryam Imani, Hassan Ghassemian, An overview on Spectral and Spatial Information Fusion for Hyperspectral Image Classification: Current Trends and Challenges, *Information Fusion*, vol. 59, pp. 59–83, 2020.
- [51] Maryam Imani, Intrusion Detection in IOT based Networks Using Double Discriminant Analysis, *AUT Journal of Modeling and Simulation (Amirkabir International Journal of Modeling, Identification, Simulation & Control)*, vol. 51, no. 2, pp. 211-220, 2019.
- [50] Maryam Imani, Gholam Ali Montazer, A Survey of Emotion Recognition Methods with Emphasis on E-Learning Environments, *Journal of Network and Computer Applications*, 147,102423, 2019.
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- [48] Maryam Imani, Hassan Ghassemian, Residential Load Forecasting Using Wavelet and Collaborative Representation Transforms, *Applied Energy*, vol. 253, 113505, 2019.

- [47] Maryam Imani, Histogram Based Shape and Textural Characteristics for Facial Emotion Recognition, *AUT Journal of Modeling and Simulation (Amirkabir International Journal of Modeling, Identification, Simulation & Control)*, vol. 51, no. 1, pp. 45-56, 2019.
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- [45] Maryam Imani, Nonparametric Spectral-Spatial Anomaly Detection, *Journal of AI and Data Mining*, vol. 8, no. 1, pp. 95-103, 2020.
- [44] Maryam Imani, Hassan Ghassemian, Supervised Feature Extraction of Face Images for Improvement of Recognition Accuracy, *Signal and Data Processing*, vol. 16, no. 1, pp. 158-172, 2019 (printed in Persian).
- [43] Maryam Imani, 3D Gabor Based Hyperspectral Anomaly Detection, *AUT Journal of Modeling and Simulation*, vol. 50, no. 2, 189-194, 2018.
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- [40] Maryam Imani, Attribute profile based target detection using collaborative and sparse representation, *Neurocomputing*, vol. 313, pp. 364–376, 2018.
- [39] Maryam Imani, Difference-Based Target Detection Using Mahalanobis Distance and Spectral Angle, *International Journal of Remote Sensing*, vol. 40, no. 3, pp. 811-831, 2019.
- [38] Maryam Imani, Anomaly detection from hyperspectral images using clustering based feature reduction, *Journal of the Indian Society of Remote Sensing*, 46(9):1389–1397, September 2018.
- [37] Maryam Imani, Gholam Ali Montazer, Email Spam Detection Using Linear Discriminant Analysis Based on Clustering, *The CSI Journal on Computer Science and Engineering*, Vol. 15, No. 1, pp. 22-30, 2017.

- [36] Maryam Imani, Hassan Ghassemian, Morphology-based structure preserving projection for spectral–spatial feature extraction and classification of hyperspectral data, *IET Image Processing*, doi: 10.1049/iet-ipr.2017.1431, 2018.
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- [34] Maryam Imani, Hyperspectral Anomaly Detection Using Differential Image, *IET Image Processing*, vol. 12, no. 5, pp. 801-809, 2018.
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- [32] Maryam Imani, Hassan Ghassemian, “Discriminant analysis in morphological feature space for high-dimensional image spatial–spectral classification,” *Journal of Applied Remote Sensing*, Vol. 12(1), 016024-1_016024-28, Jan–Mar 2018, DOI: 10.1117/1.JRS.12.016024.
- [31] Maryam Hamidi, Hassan Ghassemian, Maryam Imani, Classification of Heart Sound Signal Using Curve Fitting and Fractal Dimension, *Biomedical Signal Processing and Control*, vol. 39, pp. 351–359, 2018.
- [30] Maryam Imani, Gholam Ali Montazer, Phishing Website Detection Using Weighted Feature Line Embedding, *The ISC International Journal of Information Security (ISeCure)*, vol. 9, no. 2, pp. 49-61, July 2017.
- [29] Maryam Imani, RX Anomaly Detector with Rectified Background, *IEEE Geoscience and Remote Sensing Letters*, vol. 14, no. 8, pp. 1313-1317, August 2017.
- [28] Maryam Imani and Hassan Ghassemian, Weighted Joint Collaborative Representation Based On Median-Mean Line and Angular Separation, *IEEE Transactions on Geoscience and Remote Sensing*, vol. 55, no. 10, pp. 5612 – 5624, Oct. 2017.
- [27] Maryam Imani, Hassan Ghassemian, Pansharpening Optimisation Using MultiResolution Analysis and Sparse Representation, *International Journal of Image and Data Fusion*, vol. 8, no. 3, pp. 270–292, 2017.
- [26] Maryam Imani and Gholam Ali Montazer, Facial Emotion Recognition Using Nonparametric Weighted Feature Extraction and Fuzzy Classifier, *International Journal of Fuzzy Systems and Advanced Applications*, vol. 4, pp. 14-18, 2017.
- [25] Maryam Imani, Hassan Ghassemian, Edge-Preserving-Based Collaborative Representation for Spectral-Spatial Classification, *International Journal of Remote Sensing*, vol. 38, no. 20, pp. 5524–5545, 2017.

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- [18] Maryam Imani, Hassan Ghassemian, Binary coding based feature extraction in remote sensing high dimensional data, *Information Sciences*, vol. 342, pp. 191-208, 2016, doi:10.1016/j.ins.2016.01.032.
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- [16] M. Imani, H. Ghassemian, Feature Extraction Using Median-Mean and Feature Line Embedding, *International Journal of Remote Sensing*, vol. 36, no. 17, pp. 4297-4314, 2015.
- [15] M. Imani, H. Ghassemian, Overlap-based feature weighting: The feature extraction of hyperspectral remote sensing imagery, *Journal of AI and Data Mining*, vol. 3, no. 2, pp. 181-190, 2015.
- [14] M. Imani, H. Ghassemian, Feature Extraction Using Weighted Training Samples, *IEEE Geoscience and Remote Sensing Letters*, vol. 12, no. 7, pp. 1387-1391, July 2015.
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- [9] M. Imani, H. Ghassemian, Classification of Hyperspectral Images Using Cluster Space Linear Discriminant Analysis and Small Training Set, *Iranian Journal of Electrical and Computer Engineering*, 14(1):73-81, 2016 (Printed in Persian).
- [8] M. Imani, H. Ghassemian, Weighted Feature Line Embedding for Feature Extraction of Hyperspectral Data, *Journal of Iranian Association of Electrical and Electronics Engineers*, 13, no. 2. pp. 115-132, 2016 (Printed in Persian).
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- [5] M. Imani, H. Ghassemian, Band Clustering-Based Feature Extraction for Classification of Hyperspectral Images Using Limited Training Samples, *IEEE Geoscience and Remote Sensing Letters*, vol. 11, no. 8, pp. 1325-1329, August 2014.
- [4] M. Imani, H. Ghassemian, Assessment of Performance Improvement in Hyperspectral Image Classification Based on Adaptive Expansion of Training Samples, *Journal of Information Systems and Telecommunication*, vol. 2, no. 2, pp. 63-70, April-June 2014.
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- [1] M. Imani, H. Bakhshi, Training Based Channel Estimation in MIMO-OFDM Systems, *Communications and Network*, vol. 4, no. 1, pp. 54-60, Feb. 2012.

Publications- Conference papers

- [65] Abbas Kakoolvand, Maryam Imani, Hassan Ghassemian, Unsupervised Change Detection in SAR Images Using a Six-Branch CNN and Adaptive Window Approach, 2023 31th International Conference on Electrical Engineering (ICEE 2023), Tehran, Iran, 9-11 May 2023.
- [64] Ehsan Bahmanabady, Maryam Imani, Hassan Ghassemian, Fusion of Multi-Level CNN With LBP Features For Facial Emotion Recognition, 2023 31th International Conference on Electrical Engineering (ICEE 2023), Tehran, Iran, 9-11 May 2023.
- [63] Fariba Dehghan, Mohsen Parsa Moghadam, Maryam Imani, The Use of Additive Decomposition and Deep Neural Network for Photovoltaic Power Forecasting, 2023 31th International Conference on Electrical Engineering (ICEE 2023), Tehran, Iran, 9-11 May 2023.
- [62] Seyed Amir Latifi, Hassan Ghassemian, Maryam Imani, Feature Extraction and Classification of Respiratory Sound and Lung Diseases, 6th International conference on Pattern Recognition and Image Analysis (IPRIA 2023), Qom, Iran, 14-16 Feb. 2023.
- [61] Alirza Dori, Hassan Ghassemian, Maryam Imani, Contextual Information Classification of Remotely Sensed Images, 6th International conference on Pattern Recognition and Image Analysis (IPRIA 2023), Qom, Iran, 14-16 Feb. 2023.
- [60] Kosar Amiri, Maryam Imani, Hassan Ghassemian, Empirical Mode Decomposition Based Morphological Profile For Hyperspectral Image Classification, 6th International conference on Pattern Recognition and Image Analysis (IPRIA 2023), Qom, Iran, pp. 1-6, 14-16 Feb. 2023.
- [59] Fariba Dehghan, Mohsen Parsa Moghadam, Maryam Imani, Photovoltaic Power Forecasting With an Ensemble Multi-Input Deep Learning Approach, The 8th International Conference on Technology and Energy Management (ICTEM 2023), Mazandaran, Babol, Iran, pp. 1-5, 8-9 Feb. 2023.
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Thesis supervision

M.Sc. Supervised

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2. Abbas Kakoolvand, Unsupervised Change Detection in SAR Images Using Statistical Algorithms and Deep Learning, M.S. Thesis, Tarbiat Modares University (2022).
3. Amirhosein Ghazvinizadeh, Polarimetric SAR Image Classification Using Spatial and Scattering Features Extraction with Limited Training Samples, M.S. Thesis, Tarbiat Modares University (2022).
4. Hamidreza Mousavi, Polartimetric Synthetic Aperture Radar Image Classification based on Deep Learning, M.S. Thesis, Tarbiat Modares University (2021).
5. Amir Reza Rezvanian, Hyperspectral anomaly detection using deep neural networks, M.S. Thesis, Tarbiat Modares University (2020).
6. Rohallah Keshvari, Electricity demand prediction based on decomposition and processing of electrical load time series, M.S. Thesis, Tarbiat Modares University (2020).
7. Hosein Eskandari, Short-term electrical load forecasting using deep learning, M.S. Thesis, Tarbiat Modares University (2020).

Ph.D. Advised

1. Shiva Aghapour Maleki, Object-Based Method for Quality Assessment of Pansharpened Satellite Imagery, Ph.D. Thesis, Tarbiat Modares University (2022).
2. Ali Farajzadeh, Super-resolution of Hyperspectral images with nonsampled contourlet transform and sparsity regularization, Ph.D. Thesis, Zanjan University (2022).

M.Sc. Advised

1. Alireza Dori, Design Gabor Based CNN Inspired By Human Vision System For Classification of Remote Sensing Images With Limited Training Samples, M.S. Thesis, Tarbiat Modares University (2023).
2. Amir Latifi, Feature Extraction Inspired by the Human Auditory System for Intelligent Analysis and Classification of Lung and Heart Sounds with Limited Training Samples, M.S. Thesis, Tarbiat Modares University (2023).

3. Mohammad Hossein Alizadeh, Designing Demand Response Programs Based on Big Data Analytics: A Machine Learning Approach, M.S. Thesis, Tarbiat Modares University (2023).
4. Fariba Dehghan, Forecasting of Renewable Resources Power Production Using Deep Learning: A Case Study of Photovoltaic and Wind, M.S. Thesis, Tarbiat Modares University (2022).
5. Mohamad Ebrahim Aghili, Spectral-Spatial Feature Fusion by Designing Deep Networks CNN for Classification of Iran's Remotely Sensed Images, M.S. Thesis, Tarbiat Modares University (2022).
6. Hossein Rahmati, Heart Abnormality Classification Using Phonocardiogram Feature Extraction and Decision Fusion (using deep neural networks), M.S. Thesis, Tarbiat Modares University (2021).
7. Yeganeh Nozari, Decision Level Fusion of Panchromatic and Multispectral Information Classification, M.S. Thesis, Tarbiat Modares University (2021).
8. Zahra Farmahini Farahani, Feature Level Fusion of PAN-Contextual Information and MS-Spectral Information, M.S. Thesis, Tarbiat Modares University (2021).
9. Mehran Maneshi, Remote Sensing Pansharpening using Dictionary learning and Retina-inspired Model, M.S. Thesis, Tarbiat Modares University (2020).
10. Mohammad Mahdi Sayadi, Medical Image Fusion Using Dictionary learning and Spatial-Spectral Transforms, M.S. Thesis, Tarbiat Modares University (2020).
11. Fateme Rezaei, Panchromatic and Multispectral Image Fusion Based on Injection Coefficients, Tarbiat Modares University (2019).
12. Zahra Rostami, spectral-spatial Classification of Remote Sensing Images using morphological Information, M.S. Thesis, Tarbiat Modares University (2019).
13. Hamid Shirian Hosseinabadi, Hyperspectral Image Spectral Spatial Feature Fusion using Gabor Filter in CNN, M.S. Thesis, Tarbiat Modares University (2019).
14. Mansoureh Aghaei, Hyperspectral Classification Using Convolutional Neural Network and Support Vector Machine, M.S. Thesis, Tarbiat Modares University (2019).
15. Ahmad Taheri, Use of Spectral-Spatial Features Extracted from 3D Gabor Filters to Classify Hyperspectral Images, M.S. Thesis, Tarbiat Modares University (2018).
16. Mohammad Ghassemi, Spectral-Spatial Information Extraction of Hyperspectral Images Using Deep Learning, M.S. Thesis, Tarbiat Modares University (2018).
17. Mohammad Dowlatshah, Classification of Remote Sensing Images using spatial-spectral Morphological Information, M.S. Thesis, Tarbiat Modares University (2018).
18. Mohsen Darvishnezhad, Fusion of spectral and spatial information for hyperspectral image classification using local graph, M.S. Thesis, Tarbiat Modares University (2018).
19. Behzad Zehtabian, Classification of Hyperspectral Images Using Spectral-Spatial Information Analysis, M.S. Thesis, Tarbiat Modares University (2018).
20. Maryam Hamidi, Feature Extraction for Classification of Heart Sound Abnormalities, M.S. Thesis, Tarbiat Modares University (2016).

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