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h-index (Scopus):

11

Citations (Scopus):

391

### Research Interests

#	Title	Start date
1	Machine Learning	
2	Statistical Modeling	
3	Image Processing	
4	Optimization	

### Supervised MSc Theses

#	Thesis title	By	Date
1	Investigating the factors affecting reuse intention in digital platforms (Case study of online food delivery platforms)	Maryam Mohammadpanah & Maryam Amir Mazlaghani	June 2022
2	Multiview Deep Subspace Clustering based on Graph Learning	Nilloofar Mehdizadeh & Maryam Amir Mazlaghani	March 2022
3	image retrieval based on using statistical modeling	Maryam Taheri Golpayegani & Maryam Amir Mazlaghani	October 2021
4	semantic textuae similarity measuring and its sapplication in a question answering system	Mohadese Roghangarha & Maryam Amir Mazlaghani	October 2021
5	feature selection using data graph representation	Amin Rezaee & Maryam Amir Mazlaghani	October 2021

6	Novel method in graph representation learning	Alireza Amouzad & Maryam Amir Mazlaghani	September 2021
7	Deep Learning For Human Activity Recognition Using Mobile and Wearable Sensors	Mohammad Tavakkoli & Maryam Amir Mazlaghani	September 2021
8	Improvement of Embedding Techniques in Steganography Via Adversarial Learning	Nayereh Sadat Kholdi Nasab & Maryam Amir Mazlaghani	April 2021
9	Using voice processing techniques for secure data and voice transmission on cellular networks	Mehrdad Hamzeh & Maryam Amir Mazlaghani	May 2020
10	Probabilistic multi-person localisation and tracking	Fatemeh Nemati & Maryam Amir Mazlaghani	February 2020
11	Predicting Behavior using Functional Magnetic Resonance Imaging (fMRI) Data	Arash Hemmati & Maryam Amir Mazlaghani	July 2019
12	Image Steganography by Minimizing Statistical Detectability	Mohammad Reza Khodabandelo & Maryam Amir Mazlaghani	July 2019
13	Construction of Gene Regulatory Network Using Multiple Datasets	Mehrzad Saremi & Maryam Amir Mazlaghani	May 2019
14	Disease Diagnosis using Rest-State functional Magnetic Resonance Imaging (fMRI)	Amin Amini & Maryam Amir Mazlaghani	February 2019
15	A pathwork image watermarking method in contourlet domain	Abbas Zolfaghari & Maryam Amir Mazlaghani	July 2018
16	Synthetic Aperture Radar ( SAR) Images Denoising Using the Copula Theory	Alireza Salimi & Maryam Amir Mazlaghani	February 2018
17	High Capacity Image Steganograph Using Contourlet Transform	Farid Saleh & Maryam Amir Mazlaghani	July 2017
18	Improving Stego- Images Quality in Secret Image Sharing With Steganography	Amir Mahmood Ahmadian & Maryam Amir Mazlaghani	February 2017
19	Anomaly Detection In Network Traffic Based on Matrix Factorization	Mohammad Hossein Pourshamsi Bondarabad & Maryam Amir Mazlaghani	February 2017
20	Preventing phishing attacks based on using watermarking	Mahdi Hajiali & Maryam Amir Mazlaghani	September 2016
21	Designing a watermark system for audio signals based on a statistical approach	Samaneh Norouzi Poudeh & Maryam Amir Mazlaghani	February 2016
22	Anomaly Detection in Network Traffic using Statistical Modeling	Sajjad Hosseinzadeh & Maryam Amir Mazlaghani	October 2015

## Journal Papers

### Portal Records

- 1 Armaghan Sarvar, Maryam Amir Mazlaghani, "Defense against adversarial examples based on wavelet domain analysis", APPLIED INTELLIGENCE, April 2022 Vol. 1, Num. 1, Page 1-17, April 2022,
- 2 Arian Morteza, Maryam Amir Mazlaghani, "A Novel Gaussian-Copula modeling for image despeckling in the shearlet domain", SIGNAL PROCESSING, March 2022 Vol. 192, Num. 1, Page 1-20, March 2022,

- 3 Hamid Reza Hakim Davoodi, Maryam Amir Mazlaghani, Hamidreza Amindavar, "A new multivariate equation-error autoregressive moving average system with conditional heteroscedastic noise: Maximum likelihood identification", DIGITAL SIGNAL PROCESSING, November 2021 Vol. 118, Num. 1, Page 1-20, November 2021,
- 4 Sadegh Etemad, Maryam Amir Mazlaghani, "Color texture image retrieval based on Copula multivariate modeling in the Shearlet domain", ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, June 2021 Vol. 102, Num. 102, Page 1-17, June 2021,
- 5 Mehrzad Saremi, Maryam Amir Mazlaghani, "Reconstruction of Gene Regulatory Networks using Multiple Datasets", IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, February 2021 Vol. 0, Num. 0, Page 0-0, February 2021,
- 6 Maryam Amir Mazlaghani, Alireza Salimi, "A Novel Wavelet Domain Speckle Suppression Method for SAR Images", , January 2021 Vol. 7, Num. 2, Page 93-104, January 2021,
- 7 Arian Morteza, Maryam Amir Mazlaghani, "A novel statistical approach for multiplicative speckle removal using t-locations scale and non-sub sampled shearlet transform", DIGITAL SIGNAL PROCESSING, December 2020 Vol. 107, Num. 0, Page 1-21, December 2020,
- 8 Hamid Reza Hakim Davoodi, Maryam Amir Mazlaghani, "Using autoregressive-dynamic conditional correlation model with residual analysis to extract dynamic functional connectivity", JOURNAL OF NEURAL ENGINEERING, June 2020 Vol. 17, Num. 3, Page 1-35, June 2020,
- 9 Sajjad Hosseinzadeh, Maryam Amir Mazlaghani, Mehdi Shajari, "An aggregated statistical approach for network flood detection using Gamma-Normal mixture modeling", COMPUTER COMMUNICATIONS, January 2020 Vol. 152, Num. 0, Page 137-148, January 2020,
- 10 Mansoor Rezghi, Maryam Amir Mazlaghani, "Even-order Toeplitz tensor: framework for multidimensional structured linear systems", COMPUTATIONAL & APPLIED MATHEMATICS, September 2019 Vol. 38, Num. 3, Page 1-24, September 2019,
- 11 Amir Mahmood Ahmadian, Maryam Amir Mazlaghani, "A novel secret image sharing with steganography scheme utilizing Optimal Asymmetric Encryption Padding and Information Dispersal Algorithms", SIGNAL PROCESSING-IMAGE COMMUNICATION, May 2019 Vol. 74, Num. 0, Page 78-88, May 2019,
- 12 Maryam Amir Mazlaghani, "Heteroscedastic watermark detector in the contourlet domain", IET COMPUTER VISION, April 2019 Vol. 13, Num. 3, Page 249-260, April 2019,
- 13 Mahdi Hajiali, Maryam Amir Mazlaghani, Hossain Kordestani, "Preventing phishing attacks using text and image watermarking", CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, November 2018 Vol. 32, Num. 1, Page 1-11, November 2018,
- 14 Sadegh Etemad, Maryam Amir Mazlaghani, "A new multiplicative watermark detector in the contourlet domain using t Location-Scale distribution", PATTERN RECOGNITION, May 2018 Vol. 77, Num. 0, Page 99-112, May 2018,
- 15 Mohammadreza Hassannezhad Bibalan, Hamidreza Amindavar, Maryam Amir Mazlaghani, "Characteristic function based parameter estimation of skewed alpha-stable distribution: An analytical approach", SIGNAL PROCESSING, January 2017 Vol. 130, Num. 0, Page 323-336, January 2017,
- 16 Maryam Amir Mazlaghani, "Additive watermark detection in the wavelet domain using 2D-GARCH model", INFORMATION SCIENCES, November 2016 Vol. 370, Num. 0, Page 1-17, November 2016,
- 17 Mehdi Rabizadeh, Maryam Amir Mazlaghani, Mahmoud Ahmadian-Attari, "A new detector for contourlet domain multiplicative image watermarking using Bessel K form distribution", JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, October 2016 Vol. 40, Num. 0, Page 324-334, October 2016,
- 18 Seyed Mohammad Ali Tayaranian Hosseini, Hamidreza Amindavar, Maryam Amir Mazlaghani, "A New Robust Vital Sign Detection in Complex Environments Using Ultrawideband Radar", IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, August 2016 Vol. 54, Num. 11, Page 6771-6782, August 2016,
- 19 Seyed Mohammad Ali Tayaranian Hosseini, Hamidreza Amindavar, Maryam Amir Mazlaghani, "A new robust vital sign detection in complex environments using ultrawideband radar", IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, July 2016 Vol. 54, Num. 11, Page 6771-6782, July 2016,







- 20 Maryam Amir Mazlaghani, Mansoor Rezghi, Hamidreza Amindavar, "A novel robust scaling image watermarking scheme based on Gaussian Mixture Model", EXPERT SYSTEMS WITH APPLICATIONS, March 2015 Vol. 42, Num. 4, Page 1960-1971, March 2015,
- 21 Maryam Amir Mazlaghani, Hamidreza Amindavar, "Statistical modeling and denoising Wigner–Ville distribution", DIGITAL SIGNAL PROCESSING, February 2013 Vol. 23, Num. 2, Page 506-513, February 2013,
- 22 Maryam Amir Mazlaghani, Hamidreza Amindavar, "A Novel Sparse Method for Despeckling SAR Images", IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, December 2012 Vol. 50, Num. 12, Page 5024-5032, December 2012,
- 23 Sara Mihandoost, Mehdi Amirani, Maryam Amir Mazlaghani, Mihandoost, "Automatic feature extraction using generalised autoregressive conditional heteroscedasticity model:an application to electroencephalogram classification", IET SIGNAL PROCESSING, September 2012 Vol. 6, Num. 9, Page 829-838, September 2012,
- 24 Maryam Amir Mazlaghani, Hamidreza Amindavar, "Wavelet Domain Bayesian Processor for Speckle Removal in Medical Ultrasound Images", IET IMAGE PROCESSING, July 2012 Vol. 6, Num. 5, Page 580-588, July 2012,
- 25 Maryam Amir Mazlaghani, Hamidreza Amindavar, "Two Novel Bayesian Multiscale Approaches for Speckle Suppression in SAR Images", IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, July 2010 Vol. 48, Num. 7, Page 2980-2993, July 2010,

## Conference Papers

### Portal Records

- 1 Ali Arjomandbigdeli, Maryam Amir Mazlaghani, Mohammad Khalooei, "Defense against adversarial attacks using DRAGAN ", 6th Iranian Conference on Signal Processing and Intelligent Systems, December 2020
- 2 Sadeh Etemad, Maryam Amir Mazlaghani, "A new statistical detector for CT-based multiplicative image watermarking using the t location-scale distribution ", 9th International Conference on Information and Knowledge Technology, October 2017
- 3 Farid Saleh, Maryam Amir Mazlaghani, "A Novel Multiplicative Steganography Technique in Contourlet Domain ", 14th International ISC conference on information security & cryptology, September 2017
- 4 Maryam Amir Mazlaghani, "A Novel Statistical Detector for Contourlet Domain Image Watermarking Using 2D-GARCH Model ", 19th International conference on Image Analysis and Processing – ICIAP 2017, September 2017
- 5 Amir Mahmood Ahmadian, Maryam Amir Mazlaghani, "Computationally Secure Secret Image Sharing ", 25th Iranian Conference on Electrical Engineering, May 2017
- 6 Hamid Reza Hakim Davoodi, Maryam Amir Mazlaghani, "Maximum likelihood estimation of generalized linear models with generalized Gaussian residuals ", 2016 2nd International Conference of Signal Processing and Intelligent Systems (ICSPIS), December 2016
- 7 Sadeh Etemad, Maryam Amir Mazlaghani, "Additive Watermark Detector in Contourlet Domain Using the t Location-Scale Distribution ", 2nd International Conference on Signal Processing And Intelligence System, December 2016
- 8 Milad Barazandeh, Maryam Amir Mazlaghani, "A new statistical detector for additive image watermarking based on dual-tree complex wavelet transform ", 2nd International Conference on Signal Processing And Intelligence System, December 2016
- 9 Samaneh Norouzi Poudeh, Maryam Amir Mazlaghani, "Robust audio watermarking in wavelet domain based on generalized Gaussian Distribution ", Computer Society of Iran Computer Conference (CSICC 2016), March 2016
- 10 Sajjad Hosseinzadeh, Maryam Amir Mazlaghani, "Anomaly detection in network traffic using wavelet transform and generalized likelihood ratio test ", Computer Society of Iran Computer Conference (CSICC 2016), March 2016
- 11 Habib Yajam, Azadeh Sadat Mousavi, Maryam Amir Mazlaghani, "A new linguistic steganography scheme based on lexical substitution ", 11th International ISC Conference on Information Security and Cryptology (ISCISC), 2014, September 2014

## Taught Courses

#	Course title	Description	Headlines	Date
1	Applied Linear Algebra	The course consists of the topics of linear algebra and its applications and optimization that are extensively used in different fields of computer engineering. The course contains topics of linear equations, matrices, eigenvalues and eigenvectors, v		Spring 2022
2	Optimization	studying optimization algorithms and their conditions- studying optimization applications		Spring 2022
3	Data Mining	making students familiar with data mining concepts includes: data preprocessing, regression, classification and clustering		Fall 2021
4	Special Topics (Stochastic Processes)	To make the students fundamentally acquainted with stochastic processes and their applications in Computer Engineering.		Fall 2021
5	Optimization	studying optimization algorithms and their conditions- studying optimization applications		Spring 2021
6	Applied Linear Algebra	The course consists of the topics of linear algebra and its applications and optimization that are extensively used in different fields of computer engineering. The course contains topics of linear equations, matrices, eigenvalues and eigenvectors, v		Spring 2021