

Miad Faezipour

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

2,710
citations

361045

20
h-index

301761

39
g-index

118
all docs

118
docs citations

118
times ranked

2668
citing authors

#	ARTICLE	IF	CITATIONS
1	Sleep Stage Classification Using EEG Signal Analysis: A Comprehensive Survey and New Investigation. Entropy, 2016, 18, 272.	1.1	232
2	Progress and challenges in intelligent vehicle area networks. Communications of the ACM, 2012, 55, 90-100.	3.3	189
3	Eye Tracking and Head Movement Detection: A State-of-Art Survey. IEEE Journal of Translational Engineering in Health and Medicine, 2013, 1, 2100212-2100212.	2.2	189
4	Features Dimensionality Reduction Approaches for Machine Learning Based Network Intrusion Detection. Electronics (Switzerland), 2019, 8, 322.	1.8	188
5	Noninvasive Real-Time Automated Skin Lesion Analysis System for Melanoma Early Detection and Prevention. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-12.	2.2	138
6	Deep and Machine Learning Approaches for Anomaly-Based Intrusion Detection of Imbalanced Network Traffic. , 2019, 3, 1-4.		116
7	A review of influenza detection and prediction through social networking sites. Theoretical Biology and Medical Modelling, 2018, 15, 2.	2.1	95
8	Smartphone-Based Self-Testing of COVID-19 Using Breathing Sounds. Telemedicine Journal and E-Health, 2020, 26, 1202-1205.	1.6	86
9	A Patient-Adaptive Profiling Scheme for ECG Beat Classification. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1153-1165.	3.6	79
10	Stages-Based ECG Signal Analysis From Traditional Signal Processing to Machine Learning Approaches: A Survey. IEEE Access, 2020, 8, 177782-177803.	2.6	79
11	Bed posture classification for pressure ulcer prevention. , 2011, 2011, 7175-8.		68
12	Detection of obstructive sleep apnea through ECG signal features. , 2012, , .		53
13	Obstructive sleep apnea detection using SVM-based classification of ECG signal features. , 2012, 2012, 4938-41.		53
14	Efficient obstructive sleep apnea classification based on EEG signals. , 2015, , .		51
15	Efficient sleep stage classification based on EEG signals. , 2014, , .		47
16	A Neural Network System for Detection of Obstructive Sleep Apnea Through SpO2 Signal Features. International Journal of Advanced Computer Science and Applications, 2012, 3, .	0.5	42
17	Apnea Detection based on Respiratory Signal Classification. Procedia Computer Science, 2013, 21, 310-316.	1.2	41
18	Wire-Speed TCAM-Based Architectures for Multimatch Packet Classification. IEEE Transactions on Computers, 2009, 58, 5-17.	2.4	40

#	ARTICLE	IF	CITATIONS
19	Acoustic Signal Classification of Breathing Movements to Virtually Aid Breath Regulation. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 493-500.	3.9	40
20	Automated skin lesion analysis based on color and shape geometry feature set for melanoma early detection and prevention. , 2014, , .		40
21	Flu Outbreak Prediction Using Twitter Posts Classification and Linear Regression With Historical Centers for Disease Control and Prevention Reports: Prediction Framework Study. JMIR Public Health and Surveillance, 2019, 5, e12383.	1.2	36
22	A smart bed platform for monitoring & Ulcer prevention. , 2011, , .		35
23	An Enhanced Design of Sparse Autoencoder for Latent Features Extraction Based on Trigonometric Simplexes for Network Intrusion Detection Systems. Electronics (Switzerland), 2020, 9, 259.	1.8	33
24	Robust desynchronization of Parkinsonâ€™s disease pathological oscillations by frequency modulation of delayed feedback deep brain stimulation. PLoS ONE, 2018, 13, e0207761.	1.1	31
25	A Resource-Efficient Planning for Pressure Ulcer Prevention. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1265-1273.	3.6	30
26	Augmenting Breath Regulation Using a Mobile Driven Virtual Reality Therapy Framework. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 746-752.	3.9	30
27	A comparison of different machine learning algorithms using single channel EEG signal for classifying human sleep stages. , 2015, , .		30
28	Computational Stimulation of the Basal Ganglia Neurons with Cost Effective Delayed Gaussian Waveforms. Frontiers in Computational Neuroscience, 2017, 11, 73.	1.2	26
29	Wavelet-based denoising and beat detection of ECG signal. , 2009, , .		25
30	Transient ST-segment episode detection for ECG beat classification. , 2011, , .		22
31	Multiclass ECG Signal Analysis Using Global Average-Based 2-D Convolutional Neural Network Modeling. Electronics (Switzerland), 2021, 10, 170.	1.8	22
32	Text Classification of Flu-Related Tweets Using FastText with Sentiment and Keyword Features. , 2018, , .		21
33	A comparison of feature sets for an automated skin lesion analysis system for melanoma early detection and prevention. , 2015, , .		18
34	Fortified Anonymous Communication Protocol for Location Privacy in WSN: A Modular Approach. Sensors, 2015, 15, 5820-5864.	2.1	16
35	Effective Features Selection and Machine Learning Classifiers for Improved Wireless Intrusion Detection. , 2018, , .		16
36	Efficient Network Intrusion Detection Using PCA-Based Dimensionality Reduction of Features. , 2019, , .		16

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37	Sustainable Smartphone-Based Healthcare Systems: A Systems Engineering Approach to Assess the Efficacy of Respiratory Monitoring Apps. Sustainability, 2020, 12, 5061.	1.6	16
38	Pressure ulcer prevention: An efficient turning schedule for bed-bound patients. , 2011, , .		15
39	Steganography in Arabic text using Kashida variation algorithm (KVA). , 2013, , .		15
40	A Scalable Wireless Body Area Network for Bio-Telemetry. Journal of Information Processing Systems, 2009, 5, 77-86.	1.0	15
41	Lung capacity estimation through acoustic signal of breath. , 2012, , .		14
42	FPGA-based denoising and beat detection of the ECG signal. , 2015, , .		14
43	Enhanced frame rate for real-time eye tracking using circular hough transform. , 2013, , .		13
44	Automatic detection and classification of acoustic breathing cycles. , 2014, , .		13
45	System Dynamics Modeling for Smartphone-Based Healthcare Tools: Case Study on ECG Monitoring. IEEE Systems Journal, 2021, 15, 3036-3045.	2.9	13
46	SkinCure: An Innovative Smart Phone Based Application to Assist in Melanoma Early Detection and Prevention. Signal and Image Processing: an International Journal, 2014, 5, 01-15.	0.2	12
47	SKINcure: A real time image analysis system to aid in the malignant melanoma prevention and early detection. , 2014, , .		12
48	Efficient EEG analysis for seizure monitoring in epileptic patients. , 2013, , .		11
49	An Enhanced Communication Protocol for Anonymity and Location Privacy in WSN. , 2015, , .		11
50	ECG Signal Analysis Using 2-D Image Classification with Convolutional Neural Network. , 2019, , .		11
51	Structure of collagen-glycosaminoglycan matrix and the influence to its integrity and stability. , 2014, 2014, 3949-52.		10
52	Tweet Classification Using Sentiment Analysis Features and TF-IDF Weighting for Improved Flu Trend Detection. Lecture Notes in Computer Science, 2018, , 174-186.	1.0	10
53	Automated Vision-Based High Intraocular Pressure Detection Using Frontal Eye Images. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-13.	2.2	10
54	Hardware-based FIR filter implementations for ECG signal denoising: A monitoring framework from industrial electronics perspective. , 2016, , .		9

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55	A Single-Cycle Multi-Match Packet Classification Engine Using TCAMs. , 0, , .		8
56	Enhanced eye gaze direction classification using a combination of face detection, CHT and SVM. , 2013, , .		8
57	Application of head flexion detection for enhancing eye gaze direction classification. , 2014, 2014, 966-9.		8
58	Desynchronization and Energy Efficiency of Gaussian Neurostimulation on Different Sites of the Basal Ganglia. , 2017, , .		8
59	Hyperbolic Modeling of Subthalamic Nucleus Cells to Investigate the Effect of Dopamine Depletion. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.1	8
60	Single Channel EEG for Near Real-Time Sleep Stage Detection. , 2019, , .		8
61	PID++: A Computationally Lightweight Humanoid Motion Control Algorithm. Sensors, 2021, 21, 456.	2.1	8
62	Efficacy of Smart EEG Monitoring Amidst the COVID-19 Pandemic. Electronics (Switzerland), 2021, 10, 1001.	1.8	8
63	Constraint Repetition Inspection for Regular Expression on FPGA. , 2008, , .		7
64	A Posture Scheduling Algorithm Using Constrained Shortest Path to Prevent Pressure Ulcers. , 2011, , .		7
65	Efficient frequency-based classification of respiratory movements. , 2012, , .		7
66	Multi-class SVM based on sleep stage identification using EEG signal. , 2014, , .		7
67	Enhancing Wireless Intrusion Detection Using Machine Learning Classification with Reduced Attribute Sets. , 2018, , .		7
68	Automated ECG profiling and beat classification. , 2010, , .		6
69	Steganography in text by using MS word symbols. , 2014, , .		6
70	Network intrusion detection using hardware techniques: A review. , 2016, , .		6
71	Denosing and Beat Detection of ECG Signal by Using FPGA. International Journal of High Speed Electronics and Systems, 2017, 26, 1740016.	0.3	6
72	Novel Steganography over HTML Code. Lecture Notes in Electrical Engineering, 2015, , 607-611.	0.3	6

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73	A Real-Time Worm Outbreak Detection System Using Shared Counters. , 2007, , .		5
74	Skinaid: A virtual reality system to aid in the skin cancer prevention and pain treatment. , 2013, , .		5
75	MR image assisted drug delivery in respiratory tract and trachea tissues based on an enhanced level set method. , 2014, , .		5
76	Towards frequency adaptation for delayed feedback deep brain stimulations. Neural Regeneration Research, 2018, 13, 408.	1.6	5
77	CAM01-1: A Customized TCAM Architecture for Multi-Match Packet Classification. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
78	A hardware platform for efficient worm outbreak detection. ACM Transactions on Design Automation of Electronic Systems, 2009, 14, 1-29.	1.9	4
79	Classifiers comparison for a new eye gaze direction classification system. , 2014, , .		4
80	Histogram analysis for automatic blood vessels detection: First step of IOP. , 2015, , .		4
81	Determining the thickness of the liquid on the cornea for open and closed angle glaucoma using haar filter. , 2015, , .		4
82	Delayed Feedback Frequency Adjustment for Deep Brain Stimulation of Subthalamic Nucleus Oscillations. , 2018, 2018, 2194-2197.		4
83	High Intraocular Pressure Detection from Frontal Eye Images: A Machine Learning Based Approach. , 2018, 2018, 5406-5409.		4
84	Network Intrusion Detection with XGBoost and Deep Learning Algorithms: An Evaluation Study. , 2020, , .		4
85	Plug-and-play sensor node for body area networks. , 2009, , .		3
86	Formally expressing HIPAA privacy policies for web services. , 2015, , .		3
87	An Enhanced Communication Protocol for Location Privacy in WSN. International Journal of Distributed Sensor Networks, 2015, 11, 697098.	1.3	3
88	Regular Expression Matching for Reconfigurable Constraint Repetition Inspection. , 2008, , .		2
89	Fast real-time hardware engine for Multipoint Text Steganography. , 2014, , .		2
90	Highly efficient novel text steganography algorithms. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
91	Malicious behavior monitoring of embedded medical devices. , 2017, , .		2
92	A smart intraocular pressure risk assessment framework using frontal eye image analysis. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	2
93	Smart Healthcare Monitoring Apps with a Flavor of Systems Engineering. Transactions on Computational Science and Computational Intelligence, 2021, , 611-616.	0.3	2
94	A Novel Partitioning Scheme for Partial Transmit Sequence Method. , 2021, , .		2
95	A Behavioral Analysis Engine for Network Traffic. , 2010, , .		1
96	Enhanced combined eye gaze direction classification and head flexion detection system. , 2014, , .		1
97	An intelligent system to control the operation of tunnels and subways: Application in Makkah and Madina traffic and pedestrian tunnels. , 2016, , .		1
98	Determination for Glaucoma disease based on red area percentage. , 2016, , .		1
99	Denoising and Beat Detection of ECG Signal by Using FPGA. , 2017, , .		1
100	Intrusion Detection System in Self-Organizing Networks: A Survey. , 2017, , 339-392.		1
101	Development of a Causal Model to Study the Disparate Effects of COVID-19 on Minorities. , 2021, , .		1
102	A High-Performance Multi-Match Priority Encoder for TCAM-Based Packet Classifiers. , 2007, , .		0
103	Reconfigurable Constraint Repetition Unit for Regular Expression Matching. , 2008, , .		0
104	Computer assisted detection of liver neoplasm (CADLN). , 2012, 2012, 1510-3.		0
105	Intravascular multi-layered glucose sensors for an artificial pancreas. , 2013, , .		0
106	A Novel Lung Capacity Model to Virtually Aid in Breath Regulation. International Journal of High Speed Electronics and Systems, 2014, 23, 1450011.	0.3	0
107	Fast real-time hardware engine for ZWC text steganography. , 2014, , .		0
108	Polycaprolactone nanofibrous materials as an efficient dry eye test strip. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
109	Temporal privacy scheme for end-to-end location privacy in wireless sensor networks. , 2015, , .		0
110	An energy efficient wireless sensor network based on human neurons communication. , 2015, , .		0
111	Intraocular Pressure Detection Using CNN from Frontal Eye Images. Transactions on Computational Science and Computational Intelligence, 2021, , 93-97.	0.3	0
112	Robotic End Effector for Lunar and Martian Geological Space Exploration: Design for Interchangeability. , 2021, , .		0
113	Comparative Study of Hybrid Machine Learning Algorithms for Network Intrusion Detection. Transactions on Computational Science and Computational Intelligence, 2021, , 607-619.	0.3	0
114	Toward Intelligent Respite-Care Dyad Monitoring Using IoT. , 2021, , .		0