

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	System Dynamics Modeling for Smartphone-Based Healthcare Tools: Case Study on ECG Monitoring. IEEE Systems Journal, 2021, 15, 3036-3045.	2.9	13
2	Smart Healthcare Monitoring Apps with a Flavor of Systems Engineering. Transactions on Computational Science and Computational Intelligence, 2021, , 611-616.	0.3	2
3	Intraocular Pressure Detection Using CNN from Frontal Eye Images. Transactions on Computational Science and Computational Intelligence, 2021, , 93-97.	0.3	0
4	Multiclass ECG Signal Analysis Using Global Average-Based 2-D Convolutional Neural Network Modeling. Electronics (Switzerland), 2021, 10, 170.	1.8	22
5	PID++: A Computationally Lightweight Humanoid Motion Control Algorithm. Sensors, 2021, 21, 456.	2.1	8
6	Efficacy of Smart EEG Monitoring Amidst the COVID-19 Pandemic. Electronics (Switzerland), 2021, 10, 1001.	1.8	8
7	Robotic End Effector for Lunar and Martian Geological Space Exploration: Design for Interchangeability. , 2021, , .		0
8	Comparative Study of Hybrid Machine Learning Algorithms for Network Intrusion Detection. Transactions on Computational Science and Computational Intelligence, 2021, , 607-619.	0.3	0
9	A Novel Partitioning Scheme for Partial Transmit Sequence Method. , 2021, , .		2
10	Toward Intelligent Respite-Care Dyad Monitoring Using IoT. , 2021, , .		0
11	Development of a Causal Model to Study the Disparate Effects of COVID-19 on Minorities. , 2021, , .		1
12	Stages-Based ECG Signal Analysis From Traditional Signal Processing to Machine Learning Approaches: A Survey. IEEE Access, 2020, 8, 177782-177803.	2.6	79
13	Smartphone-Based Self-Testing of COVID-19 Using Breathing Sounds. Telemedicine Journal and E-Health, 2020, 26, 1202-1205.	1.6	86
14	Sustainable Smartphone-Based Healthcare Systems: A Systems Engineering Approach to Assess the Efficacy of Respiratory Monitoring Apps. Sustainability, 2020, 12, 5061.	1.6	16
15	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
16	Network Intrusion Detection with XGBoost and Deep Learning Algorithms: An Evaluation Study. , 2020, , .		4
17	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
18	Features Dimensionality Reduction Approaches for Machine Learning Based Network Intrusion Detection. Electronics (Switzerland), 2019, 8, 322.	1.8	188

#	ARTICLE	IF	CITATIONS
19	Single Channel EEG for Near Real-Time Sleep Stage Detection. , 2019, , .		8
20	ECG Signal Analysis Using 2-D Image Classification with Convolutional Neural Network. , 2019, , .		11
21	Efficient Network Intrusion Detection Using PCA-Based Dimensionality Reduction of Features. , 2019, , .		16
22	Deep and Machine Learning Approaches for Anomaly-Based Intrusion Detection of Imbalanced Network Traffic. , 2019, 3, 1-4.		116
23	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
24	A smart intraocular pressure risk assessment framework using frontal eye image analysis. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	2
25	Delayed Feedback Frequency Adjustment for Deep Brain Stimulation of Subthalamic Nucleus Oscillations. , 2018, 2018, 2194-2197.		4
26	High Intraocular Pressure Detection from Frontal Eye Images: A Machine Learning Based Approach. , 2018, 2018, 5406-5409.		4
27	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
28	Effective Features Selection and Machine Learning Classifiers for Improved Wireless Intrusion Detection. , 2018, , .		16
29	Enhancing Wireless Intrusion Detection Using Machine Learning Classification with Reduced Attribute Sets. , 2018, , .		7
30	Text Classification of Flu-Related Tweets Using FastText with Sentiment and Keyword Features. , 2018, , .		21
31	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
32	A review of influenza detection and prediction through social networking sites. Theoretical Biology and Medical Modelling, 2018, 15, 2.	2.1	95
33	Towards frequency adaptation for delayed feedback deep brain stimulations. Neural Regeneration Research, 2018, 13, 408.	1.6	5
34	Denosing and Beat Detection of ECG Signal by Using FPGA. , 2017, , .		1
35	Malicious behavior monitoring of embedded medical devices. , 2017, , .		2
36	Denosing and Beat Detection of ECG Signal by Using FPGA. International Journal of High Speed Electronics and Systems, 2017, 26, 1740016.	0.3	6

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37	Desynchronization and Energy Efficiency of Gaussian Neurostimulation on Different Sites of the Basal Ganglia. , 2017, , .		8
38	Computational Stimulation of the Basal Ganglia Neurons with Cost Effective Delayed Gaussian Waveforms. Frontiers in Computational Neuroscience, 2017, 11, 73.	1.2	26
39	Hyperbolic Modeling of Subthalamic Nucleus Cells to Investigate the Effect of Dopamine Depletion. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.1	8
40	Intrusion Detection System in Self-Organizing Networks: A Survey. , 2017, , 339-392.		1
41	Sleep Stage Classification Using EEG Signal Analysis: A Comprehensive Survey and New Investigation. Entropy, 2016, 18, 272.	1.1	232
42	Hardware-based FIR filter implementations for ECG signal denoising: A monitoring framework from industrial electronics perspective. , 2016, , .		9
43	An intelligent system to control the operation of tunnels and subways: Application in Makkah and Madina traffic and pedestrian tunnels. , 2016, , .		1
44	Network intrusion detection using hardware techniques: A review. , 2016, , .		6
45	Determination for Glaucoma disease based on red area percentage. , 2016, , .		1
46	Formally expressing HIPAA privacy policies for web services. , 2015, , .		3
47	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
48	An Enhanced Communication Protocol for Anonymity and Location Privacy in WSN. , 2015, , .		11
49	Temporal privacy scheme for end-to-end location privacy in wireless sensor networks. , 2015, , .		0
50	Fortified Anonymous Communication Protocol for Location Privacy in WSN: A Modular Approach. Sensors, 2015, 15, 5820-5864.	2.1	16
51	A comparison of different machine learning algorithms using single channel EEG signal for classifying human sleep stages. , 2015, , .		30
52	An energy efficient wireless sensor network based on human neurons communication. , 2015, , .		0
53	FPGA-based denoising and beat detection of the ECG signal. , 2015, , .		14
54	Highly efficient novel text steganography algorithms. , 2015, , .		2

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55	Histogram analysis for automatic blood vessels detection: First step of IOP. , 2015, , .		4
56	Determining the thickness of the liquid on the cornea for open and closed angle glaucoma using haar filter. , 2015, , .		4
57	A comparison of feature sets for an automated skin lesion analysis system for melanoma early detection and prevention. , 2015, , .		18
58	Efficient obstructive sleep apnea classification based on EEG signals. , 2015, , .		51
59	Novel Steganography over HTML Code. Lecture Notes in Electrical Engineering, 2015, , 607-611.	0.3	6
60	An Enhanced Communication Protocol for Location Privacy in WSN. International Journal of Distributed Sensor Networks, 2015, 11, 697098.	1.3	3
61	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
62	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
63	Fast real-time hardware engine for Multipoint Text Steganography. , 2014, , .		2
64	Application of head flexion detection for enhancing eye gaze direction classification. , 2014, 2014, 966-9.		8
65	Fast real-time hardware engine for ZWC text steganography. , 2014, , .		0
66	Structure of collagen-glycosaminoglycan matrix and the influence to its integrity and stability. , 2014, 2014, 3949-52.		10
67	Automatic detection and classification of acoustic breathing cycles. , 2014, , .		13
68	Multi-class SVM based on sleep stage identification using EEG signal. , 2014, , .		7
69	Classifiers comparison for a new eye gaze direction classification system. , 2014, , .		4
70	Steganography in text by using MS word symbols. , 2014, , .		6
71	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
72	Automated skin lesion analysis based on color and shape geometry feature set for melanoma early detection and prevention. , 2014, , .		40

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73	Efficient sleep stage classification based on EEG signals. , 2014, , .		47
74	SKINcure: A real time image analysis system to aid in the malignant melanoma prevention and early detection. , 2014, , .		12
75	MR image assisted drug delivery in respiratory tract and trachea tissues based on an enhanced level set method. , 2014, , .		5
76	Enhanced combined eye gaze direction classification and head flexion detection system. , 2014, , .		1
77	Polycaprolactone nanofibrous materials as an efficient dry eye test strip. , 2014, , .		0
78	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
79	Skinaid: A virtual reality system to aid in the skin cancer prevention and pain treatment. , 2013, , .		5
80	Enhanced frame rate for real-time eye tracking using circular hough transform. , 2013, , .		13
81	Efficient EEG analysis for seizure monitoring in epileptic patients. , 2013, , .		11
82	Apnea Detection based on Respiratory Signal Classification. Procedia Computer Science, 2013, 21, 310-316.	1.2	41
83	Steganography in Arabic text using Kashida variation algorithm (KVA). , 2013, , .		15
84	Intravascular multi-layered glucose sensors for an artificial pancreas. , 2013, , .		0
85	Enhanced eye gaze direction classification using a combination of face detection, CHT and SVM. , 2013, , .		8
86	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
87	Computer assisted detection of liver neoplasm (CADLN). , 2012, 2012, 1510-3.		0
88	Lung capacity estimation through acoustic signal of breath. , 2012, , .		14
89	A Resource-Efficient Planning for Pressure Ulcer Prevention. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1265-1273.	3.6	30
90	Progress and challenges in intelligent vehicle area networks. Communications of the ACM, 2012, 55, 90-100.	3.3	189

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91	Detection of obstructive sleep apnea through ECG signal features. , 2012, , .		53
92	Obstructive sleep apnea detection using SVM-based classification of ECG signal features. , 2012, 2012, 4938-41.		53
93	Efficient frequency-based classification of respiratory movements. , 2012, , .		7
94	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
95	Transient ST-segment episode detection for ECG beat classification. , 2011, , .		22
96	Pressure ulcer prevention: An efficient turning schedule for bed-bound patients. , 2011, , .		15
97	Bed posture classification for pressure ulcer prevention. , 2011, 2011, 7175-8.		68
98	A smart bed platform for monitoring & Ulcer prevention. , 2011, , .		35
99	A Posture Scheduling Algorithm Using Constrained Shortest Path to Prevent Pressure Ulcers. , 2011, , .		7
100	A Patient-Adaptive Profiling Scheme for ECG Beat Classification. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1153-1165.	3.6	79
101	Automated ECG profiling and beat classification. , 2010, , .		6
102	A Behavioral Analysis Engine for Network Traffic. , 2010, , .		1
103	A hardware platform for efficient worm outbreak detection. ACM Transactions on Design Automation of Electronic Systems, 2009, 14, 1-29.	1.9	4
104	Plug-and-play sensor node for body area networks. , 2009, , .		3
105	Wire-Speed TCAM-Based Architectures for Multimatch Packet Classification. IEEE Transactions on Computers, 2009, 58, 5-17.	2.4	40
106	Wavelet-based denoising and beat detection of ECG signal. , 2009, , .		25
107	A Scalable Wireless Body Area Network for Bio-Telemetry. Journal of Information Processing Systems, 2009, 5, 77-86.	1.0	15
108	Constraint Repetition Inspection for Regular Expression on FPGA. , 2008, , .		7

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109	Reconfigurable Constraint Repetition Unit for Regular Expression Matching. , 2008, , .		0
110	Regular Expression Matching for Reconfigurable Constraint Repetition Inspection. , 2008, , .		2
111	A Real-Time Worm Outbreak Detection System Using Shared Counters. , 2007, , .		5
112	A High-Performance Multi-Match Priority Encoder for TCAM-Based Packet Classifiers. , 2007, , .		0
113	CAM01-1: A Customized TCAM Architecture for Multi-Match Packet Classification. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
114	A Single-Cycle Multi-Match Packet Classification Engine Using TCAMs. , 0, , .		8