

# Hamid GholamHosseini

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

1,912  
citations

516561

16  
h-index

289141

40  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Skin lesion segmentation using an improved framework of <scp>encoderâ€decoder</scp> based convolutional neural network. International Journal of Imaging Systems and Technology, 2022, 32, 1143-1158.	2.7	5
2	Melanoma Classification Using a Novel Deep Convolutional Neural Network with Dermoscopic Images. Sensors, 2022, 22, 1134.	2.1	58
3	Failure mode and effect analysis (FMEA) to identify and mitigate failures in a hospital rapid response system (RRS). Heliyon, 2022, 8, e08944.	1.4	6
4	A systematic review of rapid response applications based on early warning score for early detection of inpatient deterioration. Informatics for Health and Social Care, 2021, 46, 148-157.	1.4	5
5	A Comparison of Approaches for Synchronizing Events in Video Streams Using Audio. Communications in Computer and Information Science, 2021, , 262-272.	0.4	0
6	Deep Learning in Medical Applications: Lesion Segmentation in Skin Cancer Images Using Modified and Improved Encoder-Decoder Architecture. Communications in Computer and Information Science, 2021, , 39-52.	0.4	5
7	Real-Time and Offline Evaluation of Myoelectric Pattern Recognition for the Decoding of Hand Movements. Sensors, 2021, 21, 5677.	2.1	5
8	Early Detection of Prediabetes and T2DM Using Wearable Sensors and Internet-of-Things-Based Monitoring Applications. Applied Clinical Informatics, 2021, 12, 001-009.	0.8	9
9	Managing Long-Term Conditions: Wearable Sensors and IoT-Based Monitoring Applications. , 2021, , 3047-3051.		0
10	Synthetic Images Generation Using Conditional Generative Adversarial Network for Skin Cancer Classification. , 2021, , .		6
11	Dynamic hardware system for cascade SVM classification of melanoma. Neural Computing and Applications, 2020, 32, 1777-1788.	3.2	16
12	Non-invasive continuous blood pressure monitoring systems: current and proposed technology issues and challenges. Physical and Engineering Sciences in Medicine, 2020, 43, 11-28.	1.3	36
13	Deterioration to decision: a comprehensive literature review of rapid response applications for deteriorating patients in acute care settings. Health and Technology, 2020, 10, 567-573.	2.1	8
14	Evaluation of surface EMG-based recognition algorithms for decoding hand movements. Medical and Biological Engineering and Computing, 2020, 58, 83-100.	1.6	54
15	A Usability and User-Experience Analysis of VitalsAssist: A mHealth Application to Monitor Vital Signs in Acute Care Settings. , 2020, 2020, 5132-5135.		5
16	FPGA Implementations of SVM Classifiers: A Review. SN Computer Science, 2020, 1, 1.	2.3	30
17	A Comparison of Transfer Learning Techniques, Deep Convolutional Neural Network and Multilayer Neural Network Methods for the Diagnosis of Glaucomatous Optic Neuropathy. Communications in Computer and Information Science, 2019, , 627-635.	0.4	4
18	A Cox-Based Risk Prediction Model for Early Detection of Cardiovascular Disease: Identification of Key Risk Factors for the Development of a 10-Year CVD Risk Prediction. Advances in Preventive Medicine, 2019, 2019, 1-11.	1.1	17

#	ARTICLE	IF	CITATIONS
19	A Systematic Review of Wearable Sensors and IoT-Based Monitoring Applications for Older Adults – a Focus on Ageing Population and Independent Living. <i>Journal of Medical Systems</i> , 2019, 43, 233.	2.2	130
20	Classification and Identification of Industrial Gases Based on Electronic Nose Technology. <i>Sensors</i> , 2019, 19, 5033.	2.1	10
21	A system on chip for melanoma detection using FPGA-based SVM classifier. <i>Microprocessors and Microsystems</i> , 2019, 65, 57-68.	1.8	38
22	Identifying the relationship between unstable vital signs and intensive care unit (ICU) readmissions: an analysis of 10-year of hospital ICU readmissions. <i>Health and Technology</i> , 2019, 9, 77-85.	2.1	0
23	Clinical decision support systems in hospital care using ubiquitous devices: Current issues and challenges. <i>Health Informatics Journal</i> , 2019, 25, 1091-1104.	1.1	21
24	Managing Long-Term Conditions: Wearable Sensors and IoT-Based Monitoring Applications. , 2019, , 1-5.		1
25	A Fused Pattern Recognition Model to Detect Glaucoma Using Retinal Nerve Fiber Layer Thickness Measurements. <i>Lecture Notes in Computer Science</i> , 2019, , 1-12.	1.0	1
26	Obesity Risk Assessment Model Using Wearable Technology with Personalized Activity, Calorie Expenditure and Health Profile. <i>Studies in Health Technology and Informatics</i> , 2019, 261, 91-96.	0.2	2
27	A Novel Medical Device for Early Detection of Melanoma. <i>Studies in Health Technology and Informatics</i> , 2019, 261, 122-127.	0.2	2
28	Estimating Systolic Blood Pressure Using Convolutional Neural Networks. <i>Studies in Health Technology and Informatics</i> , 2019, 261, 143-149.	0.2	2
29	Automated Glaucoma Diagnosis Using Deep and Transfer Learning: Proposal of a System for Clinical Testing. , 2018, , .		19
30	Superpixel Segmentation Methods on Stereo Fundus Images and Disparity Map for Glaucoma Detection. , 2018, , .		2
31	Unsupervised Optic Cup and Optic Disk Segmentation for Glaucoma Detection by ICICA. , 2018, , .		2
32	Clinical Decision Support for Early Detection of Prediabetes and Type 2 Diabetes Mellitus Using Wearable Technology. , 2018, 2018, 4456-4459.		7
33	Cuffless Blood Pressure Estimation Using Pulse Transit Time and Photoplethysmogram Intensity Ratio. <i>Studies in Health Technology and Informatics</i> , 2018, 249, 77-83.	0.2	2
34	Medical Device Integrated Vital Signs Monitoring Application with Real-Time Clinical Decision Support. <i>Studies in Health Technology and Informatics</i> , 2018, 249, 189-193.	0.2	0
35	A Systematic Review of Wearable Patient Monitoring Systems – Current Challenges and Opportunities for Clinical Adoption. <i>Journal of Medical Systems</i> , 2017, 41, 115.	2.2	210
36	Intrinsic motivated cervical cancer screening intervention framework. , 2017, , .		2

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37	SVM classifier on chip for melanoma detection. , 2017, 2017, 270-274.		23
38	A new ensemble classifier for multivariate medical data. , 2017, , .		9
39	Identification of Chinese Herbal Medicines with Electronic Nose Technology: Applications and Challenges. Sensors, 2017, 17, 1073.	2.1	33
40	A low-cost FPGA-based SVM classifier for melanoma detection. , 2016, , .		17
41	Lesion border detection using deep learning. , 2016, , .		15
42	Falls risk assessment for hospitalised older adults: a combination of motion data and vital signs. Aging Clinical and Experimental Research, 2016, 28, 1159-1168.	1.4	9
43	Hardware Acceleration of SVM-Based Classifier for Melanoma Images. Lecture Notes in Computer Science, 2016, , 235-245.	1.0	11
44	A novel approach for removing ECG interferences from surface EMG signals using a combined ANFIS and wavelet. Journal of Electromyography and Kinesiology, 2016, 26, 52-59.	0.7	30
45	Smartphone-based Continuous Blood Pressure Measurement Using Pulse Transit Time. Studies in Health Technology and Informatics, 2016, 224, 84-9.	0.2	5
46	Integrated vital signs monitoring system using ubiquitous devices: Multiple physical signs detection and decision support for hospitalized older adults. , 2015, 2015, 1219-22.		5
47	Review of Vital Signs Monitoring Systems â€œ Patientâ€™s Acceptability, Issues and Challenges. Neuroscience and Biomedical Engineering, 2015, 2, 2-13.	0.4	6
48	Tablet-based patient monitoring and decision support systems in hospital care. , 2015, 2015, 1215-8.		5
49	Multiple physical signs detection and decision support system for hospitalized older adults. Physiological Measurement, 2015, 36, 2069-2088.	1.2	2
50	Cuff-less, non-invasive and continuous blood pressure monitoring using indirect methods. , 2015, , .		1
51	Mobile healthcare applications: system design review, critical issues and challenges. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 23-38.	1.4	177
52	ECG Artifact Removal from Surface EMG Signal Using an Automated Method Based on Wavelet-ICA. Studies in Health Technology and Informatics, 2015, 211, 91-7.	0.2	4
53	Advanced decision support system for older adults. Studies in Health Technology and Informatics, 2015, 211, 235-40.	0.2	0
54	A multifactorial falls risk prediction model for hospitalized older adults. , 2014, 2014, 3484-7.		9

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55	A wireless patient monitoring system for hospitalized older adults: Acceptability, reliability and accuracy evaluation. , 2014, , .		7
56	Fault diagnosis in a distributed motor network using Artificial Neural Network. , 2014, , .		9
57	Real-time vital signs monitoring and interpretation system for early detection of multiple physical signs in older adults. , 2014, , .		12
58	Smart Health Monitoring Systems: An Overview of Design and Modeling. Journal of Medical Systems, 2013, 37, 9898.	2.2	296
59	Fuzzy logic based anaesthesia monitoring systems for the detection of absolute hypovolaemia. Computers in Biology and Medicine, 2013, 43, 683-692.	3.9	8
60	A comprehensive survey of wearable and wireless ECG monitoring systems for older adults. Medical and Biological Engineering and Computing, 2013, 51, 485-495.	1.6	210
61	A remote monitoring system with early diagnosis of hypertension and Hypotension. , 2013, , .		18
62	Biotronic Engineering curriculum design: Integrating electronic engineering and applied/health sciences. , 2013, , .		0
63	Design and Analysis of a Multilayer Localized Surface Plasmon Resonance Graphene Biosensor. Journal of Biomedical Nanotechnology, 2012, 8, 380-393.	0.5	16
64	Comparison of performance parameters for conventional and localized surface plasmon resonance graphene biosensors. , 2011, 2011, 1851-4.		8
65	Data stream mining for wireless sensor networks environment: energy efficient fuzzy clustering algorithm. International Journal of Autonomous and Adaptive Communications Systems, 2011, 4, 383.	0.2	2
66	Progressive Side Information Refinement Algorithm for Wyner-Ziv Codec. IEICE Transactions on Information and Systems, 2011, E94-D, 1641-1652.	0.4	0
67	Wireless Sensor Network Based Wildfire Hazard Prediction System Modeling. Procedia Computer Science, 2011, 5, 106-114.	1.2	14
68	Anaesthesia monitoring using fuzzy logic. Journal of Clinical Monitoring and Computing, 2011, 25, 339-347.	0.7	17
69	Detection and classification of hypovolaemia during anaesthesia. , 2011, 2011, 357-60.		6
70	A fuzzy logic-based system for anaesthesia monitoring. , 2010, 2010, 3974-7.		18
71	Voice analysis for detection of hoarseness due to a local anesthetic procedure. , 2009, , .		0
72	A High Speed Vision System for Robots Using FPGA Technology. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
73	The comparison of different feed forward neural network architectures for ECG signal diagnosis. Medical Engineering and Physics, 2006, 28, 372-378.	0.8	112
74	Application of ANN with extracted parameters from an electronic nose in cigarette brand identification. Sensors and Actuators B: Chemical, 2004, 99, 253-257.	4.0	70