

# 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	Smart Health Monitoring Systems: An Overview of Design and Modeling. Journal of Medical Systems, 2013, 37, 9898.	2.2	296
2	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
3	A Systematic Review of Wearable Patient Monitoring Systems – Current Challenges and Opportunities for Clinical Adoption. Journal of Medical Systems, 2017, 41, 115.	2.2	210
4	Mobile healthcare applications: system design review, critical issues and challenges. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 23-38.	1.4	177
5	A Systematic Review of Wearable Sensors and IoT-Based Monitoring Applications for Older Adults – a Focus on Ageing Population and Independent Living. Journal of Medical Systems, 2019, 43, 233.	2.2	130
6	The comparison of different feed forward neural network architectures for ECG signal diagnosis. Medical Engineering and Physics, 2006, 28, 372-378.	0.8	112
7	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
8	Melanoma Classification Using a Novel Deep Convolutional Neural Network with Dermoscopic Images. Sensors, 2022, 22, 1134.	2.1	58
9	Evaluation of surface EMG-based recognition algorithms for decoding hand movements. Medical and Biological Engineering and Computing, 2020, 58, 83-100.	1.6	54
10	A system on chip for melanoma detection using FPGA-based SVM classifier. Microprocessors and Microsystems, 2019, 65, 57-68.	1.8	38
11	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
12	Identification of Chinese Herbal Medicines with Electronic Nose Technology: Applications and Challenges. Sensors, 2017, 17, 1073.	2.1	33
13	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
14	FPGA Implementations of SVM Classifiers: A Review. SN Computer Science, 2020, 1, 1.	2.3	30
15	SVM classifier on chip for melanoma detection. , 2017, 2017, 270-274.		23
16	Clinical decision support systems in hospital care using ubiquitous devices: Current issues and challenges. Health Informatics Journal, 2019, 25, 1091-1104.	1.1	21
17	Automated Glaucoma Diagnosis Using Deep and Transfer Learning: Proposal of a System for Clinical Testing. , 2018, , .		19
18	A fuzzy logic-based system for anaesthesia monitoring. , 2010, 2010, 3974-7.		18

#	ARTICLE	IF	CITATIONS
19	A remote monitoring system with early diagnosis of hypertension and Hypotension. , 2013, , .		18
20	Anaesthesia monitoring using fuzzy logic. Journal of Clinical Monitoring and Computing, 2011, 25, 339-347.	0.7	17
21	A low-cost FPGA-based SVM classifier for melanoma detection. , 2016, , .		17
22	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
23	Design and Analysis of a Multilayer Localized Surface Plasmon Resonance Graphene Biosensor. Journal of Biomedical Nanotechnology, 2012, 8, 380-393.	0.5	16
24	Dynamic hardware system for cascade SVM classification of melanoma. Neural Computing and Applications, 2020, 32, 1777-1788.	3.2	16
25	Lesion border detection using deep learning. , 2016, , .		15
26	Wireless Sensor Network Based Wildfire Hazard Prediction System Modeling. Procedia Computer Science, 2011, 5, 106-114.	1.2	14
27	Real-time vital signs monitoring and interpretation system for early detection of multiple physical signs in older adults. , 2014, , .		12
28	Hardware Acceleration of SVM-Based Classifier for Melanoma Images. Lecture Notes in Computer Science, 2016, , 235-245.	1.0	11
29	Classification and Identification of Industrial Gases Based on Electronic Nose Technology. Sensors, 2019, 19, 5033.	2.1	10
30	A multifactorial falls risk prediction model for hospitalized older adults. , 2014, 2014, 3484-7.		9
31	Fault diagnosis in a distributed motor network using Artificial Neural Network. , 2014, , .		9
32	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
33	A new ensemble classifier for multivariate medical data. , 2017, , .		9
34	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
35	Comparison of performance parameters for conventional and localized surface plasmon resonance graphene biosensors. , 2011, 2011, 1851-4.		8
36	Fuzzy logic based anaesthesia monitoring systems for the detection of absolute hypovolaemia. Computers in Biology and Medicine, 2013, 43, 683-692.	3.9	8

#	ARTICLE	IF	CITATIONS
37	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
38	A wireless patient monitoring system for hospitalized older adults: Acceptability, reliability and accuracy evaluation. , 2014, , .		7
39	Clinical Decision Support for Early Detection of Prediabetes and Type 2 Diabetes Mellitus Using Wearable Technology. , 2018, 2018, 4456-4459.		7
40	A High Speed Vision System for Robots Using FPGA Technology. , 2008, , .		6
41	Detection and classification of hypovolaemia during anaesthesia. , 2011, 2011, 357-60.		6
42	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
43	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
44	Synthetic Images Generation Using Conditional Generative Adversarial Network for Skin Cancer Classification. , 2021, , .		6
45	Integrated vital signs monitoring system using ubiquitous devices: Multiple physical signs detection and decision support for hospitalized older adults. , 2015, 2015, 1219-22.		5
46	Tablet-based patient monitoring and decision support systems in hospital care. , 2015, 2015, 1215-8.		5
47	A Usability and User-Experience Analysis of VitalsAssist: A mHealth Application to Monitor Vital Signs in Acute Care Settings. , 2020, 2020, 5132-5135.		5
48	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
49	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
50	Real-Time and Offline Evaluation of Myoelectric Pattern Recognition for the Decoding of Hand Movements. Sensors, 2021, 21, 5677.	2.1	5
51	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
52	Smartphone-based Continuous Blood Pressure Measurement Using Pulse Transit Time. Studies in Health Technology and Informatics, 2016, 224, 84-9.	0.2	5
53	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
54	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

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55	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
56	Multiple physical signs detection and decision support system for hospitalized older adults. Physiological Measurement, 2015, 36, 2069-2088.	1.2	2
57	Intrinsic motivated cervical cancer screening intervention framework. , 2017, , .		2
58	Superpixel Segmentation Methods on Stereo Fundus Images and Disparity Map for Glaucoma Detection. , 2018, , .		2
59	Unsupervised Optic Cup and Optic Disk Segmentation for Glaucoma Detection by ICICA. , 2018, , .		2
60	Cuffless Blood Pressure Estimation Using Pulse Transit Time and Photoplethysmogram Intensity Ratio. Studies in Health Technology and Informatics, 2018, 249, 77-83.	0.2	2
61	Obesity Risk Assessment Model Using Wearable Technology with Personalized Activity, Calorie Expenditure and Health Profile. Studies in Health Technology and Informatics, 2019, 261, 91-96.	0.2	2
62	A Novel Medical Device for Early Detection of Melanoma. Studies in Health Technology and Informatics, 2019, 261, 122-127.	0.2	2
63	Estimating Systolic Blood Pressure Using Convolutional Neural Networks. Studies in Health Technology and Informatics, 2019, 261, 143-149.	0.2	2
64	Cuff-less, non-invasive and continuous blood pressure monitoring using indirect methods. , 2015, , .		1
65	Managing Long-Term Conditions: Wearable Sensors and IoT-Based Monitoring Applications. , 2019, , 1-5.		1
66	A Fused Pattern Recognition Model to Detect Glaucoma Using Retinal Nerve Fiber Layer Thickness Measurements. Lecture Notes in Computer Science, 2019, , 1-12.	1.0	1
67	Voice analysis for detection of hoarseness due to a local anesthetic procedure. , 2009, , .		0
68	Progressive Side Information Refinement Algorithm for Wyner-Ziv Codec. IEICE Transactions on Information and Systems, 2011, E94-D, 1641-1652.	0.4	0
69	Biotronic Engineering curriculum design: Integrating electronic engineering and applied/health sciences. , 2013, , .		0
70	Identifying the relationship between unstable vital signs and intensive care unit (ICU) readmissions: an analysis of 10-year of hospital ICU readmissions. Health and Technology, 2019, 9, 77-85.	2.1	0
71	A Comparison of Approaches for Synchronizing Events in Video Streams Using Audio. Communications in Computer and Information Science, 2021, , 262-272.	0.4	0
72	Managing Long-Term Conditions: Wearable Sensors and IoT-Based Monitoring Applications. , 2021, , 3047-3051.		0

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73	Advanced decision support system for older adults. Studies in Health Technology and Informatics, 2015, 211, 235-40.	0.2	0
74	Medical Device Integrated Vital Signs Monitoring Application with Real-Time Clinical Decision Support. Studies in Health Technology and Informatics, 2018, 249, 189-193.	0.2	0