

Kayvan Najarian

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

1,941
citations

393982

19
h-index

315357

38
g-index

109
all docs

109
docs citations

109
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	Big Data Analytics in Healthcare. BioMed Research International, 2015, 2015, 1-16.	0.9	332
2	Machine learning approaches and databases for prediction of drug-target interaction: a survey paper. Briefings in Bioinformatics, 2021, 22, 247-269.	3.2	217
3	Deep learning in pharmacogenomics: from gene regulation to patient stratification. Pharmacogenomics, 2018, 19, 629-650.	0.6	119
4	Osteoarthritis of the Temporomandibular Joint can be diagnosed earlier using biomarkers and machine learning. Scientific Reports, 2020, 10, 8012.	1.6	71
5	Fully automated endoscopic disease activity assessment in ulcerative colitis. Gastrointestinal Endoscopy, 2021, 93, 728-736.e1.	0.5	64
6	Accounting for Label Uncertainty in Machine Learning for Detection of Acute Respiratory Distress Syndrome. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 407-415.	3.9	53
7	Biomedical Informatics for Computer-Aided Decision Support Systems: A Survey. Scientific World Journal, The, 2013, 2013, 1-8.	0.8	45
8	A Hierarchical Method for Removal of Baseline Drift from Biomedical Signals: Application in ECG Analysis. Scientific World Journal, The, 2013, 2013, 1-10.	0.8	41
9	An Automated Optimal Engagement and Attention Detection System Using Electrocardiogram. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-12.	0.7	40
10	Private naive bayes classification of personal biomedical data: Application in cancer data analysis. Computers in Biology and Medicine, 2019, 105, 144-150.	3.9	39
11	Fracture Detection in Traumatic Pelvic CT Images. International Journal of Biomedical Imaging, 2012, 2012, 1-10.	3.0	38
12	Fast exposure fusion using exposedness function. , 2017, , .		35
13	A comparative analysis of multi-level computer-assisted decision making systems for traumatic injuries. BMC Medical Informatics and Decision Making, 2009, 9, 2.	1.5	33
14	Non-linear dynamical signal characterization for prediction of defibrillation success through machine learning. BMC Medical Informatics and Decision Making, 2012, 12, 116.	1.5	29
15	Boosted Dictionary Learning for Image Compression. IEEE Transactions on Image Processing, 2016, 25, 4900-4915.	6.0	29
16	A hierarchical expert-guided machine learning framework for clinical decision support systems: an application to traumatic brain injury prognostication. Npj Digital Medicine, 2021, 4, 78.	5.7	25
17	Robust segmentation of lung in chest x-ray: applications in analysis of acute respiratory distress syndrome. BMC Medical Imaging, 2020, 20, 116.	1.4	24
18	Automated hematoma segmentation and outcome prediction for patients with traumatic brain injury. Artificial Intelligence in Medicine, 2020, 107, 101910.	3.8	24

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19	Signal quality measure for pulsatile physiological signals using morphological features: Applications in reliability measure for pulse oximetry. <i>Informatics in Medicine Unlocked</i> , 2019, 16, 100222.	1.9	23
20	Early Detection of Heart Failure With Reduced Ejection Fraction Using Perioperative Data Among Noncardiac Surgical Patients: A Machine-Learning Approach. <i>Anesthesia and Analgesia</i> , 2020, 130, 1188-1200.	1.1	23
21	A Signal Processing Approach for Detection of Hemodynamic Instability before Decompensation. <i>PLoS ONE</i> , 2016, 11, e0148544.	1.1	23
22	Electrocardiogram characteristics prior to in-hospital cardiac arrest. <i>Journal of Clinical Monitoring and Computing</i> , 2015, 29, 385-392.	0.7	22
23	Automated Segmentation and Severity Analysis of Subdural Hematoma for Patients with Traumatic Brain Injuries. <i>Diagnostics</i> , 2020, 10, 773.	1.3	22
24	Suppression of false arrhythmia alarms in the ICU: a machine learning approach. <i>Physiological Measurement</i> , 2016, 37, 1186-1203.	1.2	20
25	Utilization of smartphone and tablet camera photographs to predict healing of diabetes-related foot ulcers. <i>Computers in Biology and Medicine</i> , 2020, 126, 104042.	3.9	20
26	Transforming big data into computational models for personalized medicine and health care. <i>Dialogues in Clinical Neuroscience</i> , 2016, 18, 339-343.	1.8	20
27	A physiological signal processing system for optimal engagement and attention detection. , 2011, , .		19
28	Multi-modal integrated approach towards reducing false arrhythmia alarms during continuous patient monitoring: The Physionet Challenge 2015. , 2015, , .		16
29	Aggregation of Rich Depth-Aware Features in a Modified Stacked Generalization Model for Single Image Depth Estimation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 683-697.	5.6	16
30	Clinical decision support systems in orthodontics: A narrative review of data science approaches. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 26-36.	1.2	16
31	Decision Support Systems in Temporomandibular Joint Osteoarthritis: A review of Data Science and Artificial Intelligence Applications. <i>Seminars in Orthodontics</i> , 2021, 27, 78-86.	0.8	16
32	Hemorrhage Detection and Segmentation in Traumatic Pelvic Injuries. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-12.	0.7	15
33	Predictability of intracranial pressure level in traumatic brain injury: features extraction, statistical analysis and machine learning-based evaluation. <i>International Journal of Data Mining and Bioinformatics</i> , 2013, 8, 480.	0.1	15
34	Heart rate variability analysis during central hypovolemia using wavelet transformation. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 289-302.	0.7	14
35	Vessel segmentation for X-ray coronary angiography using ensemble methods with deep learning and filter-based features. <i>BMC Medical Imaging</i> , 2022, 22, 10.	1.4	14
36	Intracranial pressure level prediction in traumatic brain injury by extracting features from multiple sources and using machine learning methods. , 2010, , .		13

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37	Non-invasive vascular resistance monitoring with a piezoelectric sensor and photoplethysmogram. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 198-208.	2.0	13
38	Learning Using Concave and Convex Kernels: Applications in Predicting Quality of Sleep and Level of Fatigue in Fibromyalgia. <i>Entropy</i> , 2019, 21, 442.	1.1	13
39	Interactive visual analysis of time-series microarray data. <i>Visual Computer</i> , 2008, 24, 1053-1066.	2.5	12
40	Multimodal tensor-based method for integrative and continuous patient monitoring during postoperative cardiac care. <i>Artificial Intelligence in Medicine</i> , 2021, 113, 102032.	3.8	12
41	Mechanistic Study of Membrane Disruption by Antimicrobial Methacrylate Random Copolymers by the Single Giant Vesicle Method. <i>Langmuir</i> , 2021, 37, 9982-9995.	1.6	12
42	Unified wavelet and gaussian filtering for segmentation of CT images; application in segmentation of bone in pelvic CT images. <i>BMC Medical Informatics and Decision Making</i> , 2009, 9, S8.	1.5	11
43	Frustration Detection with Electrocardiograph Signal Using Wavelet Transform. , 2010, , .		11
44	Bone segmentation and 3D visualization of CT images for traumatic pelvic injuries. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 29-38.	2.7	11
45	Game Theoretic Approach for Systematic Feature Selection; Application in False Alarm Detection in Intensive Care Units. <i>Entropy</i> , 2018, 20, 190.	1.1	11
46	Learning Using Partially Available Privileged Information and Label Uncertainty: Application in Detection of Acute Respiratory Distress Syndrome. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 784-796.	3.9	11
47	Motion-based camera localization system in colonoscopy videos. <i>Medical Image Analysis</i> , 2021, 73, 102180.	7.0	11
48	A novel Mixture Model Method for identification of differentially expressed genes from DNA microarray data. <i>BMC Bioinformatics</i> , 2004, 5, 201.	1.2	10
49	Automated bone segmentation from Pelvic CT images. , 2008, , .		10
50	Integration of Attributes from Non-Linear Characterization of Cardiovascular Time-Series for Prediction of Defibrillation Outcomes. <i>PLoS ONE</i> , 2016, 11, e0141313.	1.1	10
51	A deep learning framework for automated detection and quantitative assessment of liver trauma. <i>BMC Medical Imaging</i> , 2022, 22, 39.	1.4	10
52	On learning of Sigmoid Neural Networks. <i>Complexity</i> , 2001, 6, 39-45.	0.9	9
53	Impedance plethysmography on the arms: Respiration monitoring. , 2010, , .		9
54	Automated detection of acute respiratory distress syndrome from chest X-Rays using Directionality Measure and deep learning features. <i>Computers in Biology and Medicine</i> , 2021, 134, 104463.	3.9	9

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55	Feasibility and Usability of a Mobile Application to Assess Symptoms and Affect in Patients with Atrial Fibrillation: A Pilot Study. Journal of Atrial Fibrillation, 2017, 10, 1672.	0.5	8
56	Blood loss severity prediction using game theoretic based feature selection. , 2014, , .		7
57	Spleen Segmentation and Assessment in CT Images for Traumatic Abdominal Injuries. Journal of Medical Systems, 2015, 39, 87.	2.2	7
58	Daily Variation in Sleep Quality is Associated With Health-Related Quality of Life in People With Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2022, 103, 263-273.e4.	0.5	7
59	Learning-Based Complexity Evaluation of Radial Basis Function Networks. Neural Processing Letters, 2002, 16, 137-150.	2.0	6
60	Extraction of Respiratory Rate from Impedance Signal Measured on Arm: A Portable Respiratory Rate Measurement Device. , 2009, , .		6
61	Adaptive image watermarking using human perception based fuzzy inference system. Journal of Intelligent and Fuzzy Systems, 2018, 35, 4589-4608.	0.8	6
62	Automated segmentation of lateral ventricles in brain CT images. , 2008, , .		5
63	Detection of fracture and quantitative assessment of displacement measures in pelvic X-RAY images. , 2010, , .		5
64	Actual Midline Estimation from Brain CT Scan Using Multiple Regions Shape Matching. , 2010, , .		5
65	A new hierarchical method for multi-level segmentation of bone in pelvic CT scans. , 2011, 2011, 3399-402.		5
66	An automated method for hemorrhage detection in traumatic pelvic injuries. , 2011, 2011, 5108-11.		5
67	Retinal blood vessel segmentation for macula detachment surgery monitoring instruments. International Journal of Circuit Theory and Applications, 2018, 46, 1166-1180.	1.3	5
68	Novel Algorithm for Automated Optic Nerve Sheath Diameter Measurement Using a Clustering Approach. Military Medicine, 2021, 186, 496-501.	0.4	5
69	Automated Spleen Injury Detection Using 3D Active Contours and Machine Learning. Entropy, 2021, 23, 382.	1.1	5
70	Splines and Active Shape Model for segmentation of pelvic x-ray images. , 2009, , .		4
71	Automated Intracranial Pressure Prediction Using Multiple Features Sources. , 2013, , .		4
72	Biomedical Signal and Image Processing for Clinical Decision Support Systems. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-2.	0.7	4

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73	Association between symptoms, affect and heart rhythm in patients with persistent or paroxysmal atrial fibrillation: an ambulatory pilot study. American Heart Journal, 2021, 241, 1-5.	1.2	4
74	FIR Volterra kernel neural models and PAC learning. Complexity, 2002, 7, 48-55.	0.9	3
75	Automated segmentation of pelvic bone structure in x-ray radiographs using active shape models and directed Hough transform. , 2008, , .		3
76	Employing Decoding of Specific Error Correcting Codes as a New Classification Criterion in Multiclass Learning Problems. , 2010, , .		3
77	Intracranial pressure (ICP) level estimation using textural features of brain CT images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2013, 1, 130-137.	1.3	3
78	Biomedical Signal and Image Processing for Clinical Decision Support Systems 2014. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-2.	0.7	3
79	Real-time detection of intradialytic hypotension using a novel polyvinylidene fluoride based sensor. , 2016, , .		3
80	An Integration of Decision Tree and Visual Analysis to Analyze Intracranial Pressure. Methods in Molecular Biology, 2017, 1598, 405-419.	0.4	3
81	Real-time removal of impulse noise from MR images for radiosurgery applications. International Journal of Circuit Theory and Applications, 2019, 47, 406-426.	1.3	3
82	Detection of Acute Respiratory Distress Syndrome by Incorporation of Label Uncertainty and Partially Available Privileged Information. , 2019, 2019, 1717-1720.		3
83	Preprocessing Sequence Coverage Data for More Precise Detection of Copy Number Variations. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 868-876.	1.9	3
84	A Fixed-Distribution PAC Learning Theory for Neural FIR Models. Journal of Intelligent Information Systems, 2005, 25, 275-291.	2.8	2
85	Hierarchical object recognition in Pelvic CT images. , 2009, 2009, 3533-6.		2
86	Vessel Extraction of Microcirculatory Video Recordings Using Multi-thresholding Based Verification Algorithm. , 2010, , .		2
87	Adaptive set-membership normalized least mean squares: An adaptive filter for the systems with bounded noise. , 2010, , .		2
88	Reduction of periodic motion artifacts from impedance plethysmography. , 2011, , .		2
89	Predicting defibrillation success with a multiple-domain model using machine learning. , 2011, , .		2
90	Detection of Low Cardiac Index Using a Polyvinylidene Fluoride-Based Wearable Ring and Convolutional Neural Networks. IEEE Sensors Journal, 2021, 21, 14281-14289.	2.4	2

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91	Rule-based Computer Aided Decision Making for Traumatic Brain Injuries. Intelligent Systems Reference Library, 2014, , 229-259.	1.0	2
92	Tracking Peripheral Artery Motion and Vascular Resistance With a Multimodal Wearable Sensor Under Pressure Perturbations. Journal of Biomechanical Engineering, 2022, 144, .	0.6	2
93	Abstract 18257: A Novel Portable Polyvinylidene Fluoride Based Sensor for Detection of Hemorrhage. Circulation, 2015, 132, .	1.6	2
94	Traumatic Pelvic Injury Outcome Prediction by Extracting Features from Relevant Medical Records and X-Ray Images. , 2009, , .		1
95	Fracture detection and quantitative measure of displacement in pelvic CT images. , 2011, , .		1
96	Bioinformatics and Biomedical Informatics. Scientific World Journal, The, 2013, 2013, 1-1.	0.8	1
97	Digitization of Electrocardiogram From Telemetry Prior to In-hospital Cardiac Arrest. Biological Research for Nursing, 2016, 18, 230-236.	1.0	1
98	Windowed persistent homology: A topological signal processing algorithm applied to clinical obesity data. PLoS ONE, 2017, 12, e0177696.	1.1	1
99	MATTERS OF THE HEART: DAILY SOCIAL INTERACTIONS AND CARDIOVASCULAR REACTIVITY IN MIDDLE AND OLD AGE. Innovation in Aging, 2019, 3, S741-S741.	0.0	1
100	Midline Shift vs. Mid-Surface Shift: Correlation with Outcome of Traumatic Brain Injuries. , 2019, 2019, 1083-1086.		1
101	Predicting atrial fibrillation episodes with rapid ventricular rates associated with low levels of activity. BMC Medical Informatics and Decision Making, 2021, 21, 364.	1.5	1
102	Biomedical Engineering and Computational Biology. Biomedical Engineering and Computational Biology, 2009, 1, 117959720900100.	0.8	0
103	A unified signal processing and machine learning method for detection of abnormal heart beats using Electrocardiogram. , 2010, , .		0
104	A time-series approach for shock outcome prediction using machine learning. , 2010, , .		0
105	Predicting pelvic trauma severity using features extracted from records and X-ray and CT images. , 2010, , .		0
106	A hybrid approach for hemorrhage segmentation in pelvic CT scans. , 2011, , .		0
107	Decompensation Prediction in Hemodialysis by a Feedback Model as Identified by Miniature Wearable Sensors. , 2019, , .		0
108	Signal, Image Processing, and Machine Learning: The Key to Complex Problems in Medicine and Biology. , 2013, , 141-152.		0