

Pankaj K Jain

List of Publications by Year in descending order

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Version: 2024-02-01

175
papers

8,729
citations

38742

50
h-index

62596

80
g-index

178
all docs

178
docs citations

178
times ranked

5276
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated deep learning-based paradigm for high-risk plaque detection in B-mode common carotid ultrasound scans: an asymptomatic Japanese cohort study. <i>International Angiology</i> , 2022, 41, .	0.9	23
2	Texture analysis imaging â€œwhat a clinical radiologist needs to knowâ€•. <i>European Journal of Radiology</i> , 2022, 146, 110055.	2.6	24
3	Ensemble Machine Learning and Its Validation for Prediction of Coronary Artery Disease and Acute Coronary Syndrome Using Focused Carotid Ultrasound. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	4.7	8
4	Understanding the bias in machine learning systems for cardiovascular disease risk assessment: The first of its kind review. <i>Computers in Biology and Medicine</i> , 2022, 142, 105204.	7.0	34
5	A hybrid deep learning paradigm for carotid plaque tissue characterization and its validation in multicenter cohorts using a supercomputer framework. <i>Computers in Biology and Medicine</i> , 2022, 141, 105131.	7.0	27
6	Cardiovascular disease detection using machine learning and carotid/femoral arterial imaging frameworks in rheumatoid arthritis patients. <i>Rheumatology International</i> , 2022, 42, 215-239.	3.0	18
7	Human activity recognition in artificial intelligence framework: a narrative review. <i>Artificial Intelligence Review</i> , 2022, 55, 4755-4808.	15.7	102
8	Bias Investigation in Artificial Intelligence Systems for Early Detection of Parkinsonâ€™s Disease: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 166.	2.6	23
9	A machine learning framework for risk prediction of multi-label cardiovascular events based on focused carotid plaque B-Mode ultrasound: A Canadian study. <i>Computers in Biology and Medicine</i> , 2022, 140, 105102.	7.0	18
10	Four Types of Multiclass Frameworks for Pneumonia Classification and Its Validation in X-ray Scans Using Seven Types of Deep Learning Artificial Intelligence Models. <i>Diagnostics</i> , 2022, 12, 652.	2.6	23
11	Cardiovascular/Stroke Risk Stratification in Parkinsonâ€™s Disease Patients Using Atherosclerosis Pathway and Artificial Intelligence Paradigm: A Systematic Review. <i>Metabolites</i> , 2022, 12, 312.	2.9	21
12	A Powerful Paradigm for Cardiovascular Risk Stratification Using Multiclass, Multi-Label, and Ensemble-Based Machine Learning Paradigms: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 722.	2.6	20
13	An artificial intelligence framework and its bias for brain tumor segmentation: A narrative review. <i>Computers in Biology and Medicine</i> , 2022, 143, 105273.	7.0	57
14	Cardiovascular Risk Stratification in Diabetic Retinopathy via Atherosclerotic Pathway in COVID-19/Non-COVID-19 Frameworks Using Artificial Intelligence Paradigm: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 1234.	2.6	15
15	Cardiovascular/Stroke Risk Assessment in Patients with Erectile Dysfunctionâ€”A Role of Carotid Wall Arterial Imaging and Plaque Tissue Characterization Using Artificial Intelligence Paradigm: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 1249.	2.6	5
16	Eight pruning deep learning models for low storage and high-speed COVID-19 computed tomography lung segmentation and heatmap-based lesion localization: A multicenter study using COVLIAS 2.0. <i>Computers in Biology and Medicine</i> , 2022, 146, 105571.	7.0	30
17	COVLIAS 1.0 Lesion vs. MedSeg: An Artificial Intelligence Framework for Automated Lesion Segmentation in COVID-19 Lung Computed Tomography Scans. <i>Diagnostics</i> , 2022, 12, 1283.	2.6	15
18	NeoAI 1.0: Machine learning-based paradigm for prediction of neonatal and infant risk of death. <i>Computers in Biology and Medicine</i> , 2022, 147, 105639.	7.0	10

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19	Deep Learning Paradigm for Cardiovascular Disease/Stroke Risk Stratification in Parkinson's Disease Affected by COVID-19: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 1543.	2.6	7
20	COVLIAS 2.0-cXAI: Cloud-Based Explainable Deep Learning System for COVID-19 Lesion Localization in Computed Tomography Scans. <i>Diagnostics</i> , 2022, 12, 1482.	2.6	23
21	Role of Artificial Intelligence in Radiogenomics for Cancers in the Era of Precision Medicine. <i>Cancers</i> , 2022, 14, 2860.	3.7	38
22	International Union of Angiology (IUA) consensus paper on imaging strategies in atherosclerotic carotid artery imaging: From basic strategies to advanced approaches. <i>Atherosclerosis</i> , 2022, 354, 23-40.	0.8	22
23	Multiclass machine learning vs. conventional calculators for stroke/CVD risk assessment using carotid plaque predictors with coronary angiography scores as gold standard: a 500 participants study. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 1171-1187.	1.5	41
24	Imaging in COVID-19-related myocardial injury. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 1349-1360.	1.5	39
25	Ultrasound-based internal carotid artery plaque characterization using deep learning paradigm on a supercomputer: a cardiovascular disease/stroke risk assessment system. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 1511-1528.	1.5	34
26	Maximum plaque height in carotid ultrasound predicts cardiovascular disease outcomes: a population-based validation study of the American society of echocardiography's grade II-III plaque characterization and protocol. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 1601-1610.	1.5	11
27	Review of imaging biomarkers for the vulnerable carotid plaque. <i>JVS Vascular Science</i> , 2021, 2, 149-158.	1.1	28
28	Wilson disease tissue classification and characterization using seven artificial intelligence models embedded with 3D optimization paradigm on a weak training brain magnetic resonance imaging datasets: a supercomputer application. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 511-533.	2.8	41
29	Six artificial intelligence paradigms for tissue characterisation and classification of non-COVID-19 pneumonia against COVID-19 pneumonia in computed tomography lungs. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 423-434.	2.8	45
30	Cardiovascular disease and stroke risk assessment in patients with chronic kidney disease using integration of estimated glomerular filtration rate, ultrasonic image phenotypes, and artificial intelligence: a narrative review. <i>International Angiology</i> , 2021, 40, 150-164.	0.9	15
31	Bidirectional link between diabetes mellitus and coronavirus disease 2019 leading to cardiovascular disease: A narrative review. <i>World Journal of Diabetes</i> , 2021, 12, 215-237.	3.5	34
32	Ct Findings of Covid-19 Pneumonia in Icu-Patients. <i>Journal of Public Health Research</i> , 2021, 10, jphr.2021.2270.	1.2	23
33	Role of artificial intelligence in cardiovascular risk prediction and outcomes: comparison of machine-learning and conventional statistical approaches for the analysis of carotid ultrasound features and intra-plaque neovascularization. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 3145-3156.	1.5	15
34	Multimodality carotid plaque tissue characterization and classification in the artificial intelligence paradigm: a narrative review for stroke application. <i>Annals of Translational Medicine</i> , 2021, 9, 1206-1206.	1.7	39
35	Artificial intelligence in computed tomography plaque characterization: A review. <i>European Journal of Radiology</i> , 2021, 140, 109767.	2.6	27
36	COVLIAS 1.0: Lung Segmentation in COVID-19 Computed Tomography Scans Using Hybrid Deep Learning Artificial Intelligence Models. <i>Diagnostics</i> , 2021, 11, 1405.	2.6	38

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37	Complications in COVID-19 patients: Characteristics of pulmonary embolism. <i>Clinical Imaging</i> , 2021, 77, 244-249.	1.5	29
38	Hybrid deep learning segmentation models for atherosclerotic plaque in internal carotid artery B-mode ultrasound. <i>Computers in Biology and Medicine</i> , 2021, 136, 104721.	7.0	73
39	Artificial intelligence-based hybrid deep learning models for image classification: The first narrative review. <i>Computers in Biology and Medicine</i> , 2021, 137, 104803.	7.0	81
40	Systematic Review of Artificial Intelligence in Acute Respiratory Distress Syndrome for COVID-19 Lung Patients: A Biomedical Imaging Perspective. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 4128-4139.	6.3	45
41	A Novel Block Imaging Technique Using Nine Artificial Intelligence Models for COVID-19 Disease Classification, Characterization and Severity Measurement in Lung Computed Tomography Scans on an Italian Cohort. <i>Journal of Medical Systems</i> , 2021, 45, 28.	3.6	53
42	Inter-Variability Study of COVLIAS 1.0: Hybrid Deep Learning Models for COVID-19 Lung Segmentation in Computed Tomography. <i>Diagnostics</i> , 2021, 11, 2025.	2.6	20
43	Ten Fast Transfer Learning Models for Carotid Ultrasound Plaque Tissue Characterization in Augmentation Framework Embedded with Heatmaps for Stroke Risk Stratification. <i>Diagnostics</i> , 2021, 11, 2109.	2.6	30
44	Unseen Artificial Intelligenceâ€”Deep Learning Paradigm for Segmentation of Low Atherosclerotic Plaque in Carotid Ultrasound: A Multicenter Cardiovascular Study. <i>Diagnostics</i> , 2021, 11, 2257.	2.6	33
45	COVLIAS 1.0 vs. MedSeg: Artificial Intelligence-Based Comparative Study for Automated COVID-19 Computed Tomography Lung Segmentation in Italian and Croatian Cohorts. <i>Diagnostics</i> , 2021, 11, 2367.	2.6	15
46	Localization of common carotid artery transverse section in B-mode ultrasound images using faster RCNN: a deep learning approach. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 471-482.	2.8	28
47	Carotid artery stenosis and brain connectivity: the role of white matter hyperintensities. <i>Neuroradiology</i> , 2020, 62, 377-387.	2.2	15
48	3-D optimized classification and characterization artificial intelligence paradigm for cardiovascular/stroke risk stratification using carotid ultrasound-based delineated plaque: Atheromaticâ„¢ 2.0. <i>Computers in Biology and Medicine</i> , 2020, 125, 103958.	7.0	52
49	COVID-19 pathways for brain and heart injury in comorbidity patients: A role of medical imaging and artificial intelligence-based COVID severity classification: A review. <i>Computers in Biology and Medicine</i> , 2020, 124, 103960.	7.0	79
50	Carotid plaque imaging profiling in subjects with risk factors (diabetes and hypertension). <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 1005-1018.	1.7	15
51	Artificial intelligence framework for predictive cardiovascular and stroke risk assessment models: A narrative review of integrated approaches using carotid ultrasound. <i>Computers in Biology and Medicine</i> , 2020, 126, 104043.	7.0	34
52	Cardiovascular/stroke risk prevention: A new machine learning framework integrating carotid ultrasound image-based phenotypes and its harmonics with conventional risk factors. <i>Indian Heart Journal</i> , 2020, 72, 258-264.	0.5	31
53	Low-Cost Office-Based Cardiovascular Risk Stratification Using Machine Learning and Focused Carotid Ultrasound in an Asian-Indian Cohort. <i>Journal of Medical Systems</i> , 2020, 44, 208.	3.6	18
54	Does the Carotid Bulb Offer a Better 10-Year CVD/Stroke Risk Assessment Compared to the Common Carotid Artery? A 1516 Ultrasound Scan Study. <i>Angiology</i> , 2020, 71, 920-933.	1.8	16

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55	CT imaging features of carotid artery plaque vulnerability. <i>Annals of Translational Medicine</i> , 2020, 8, 1261-1261.	1.7	23
56	Ultrasound-based stroke/cardiovascular risk stratification using Framingham Risk Score and ASCVD Risk Score based on "Integrated Vascular Age" instead of "Chronological Age": a multi-ethnic study of Asian Indian, Caucasian, and Japanese cohorts. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 939-954.	1.7	15
57	Heart applications of 4D flow. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 1140-1149.	1.7	10
58	Cardiovascular risk assessment in patients with rheumatoid arthritis using carotid ultrasound B-mode imaging. <i>Rheumatology International</i> , 2020, 40, 1921-1939.	3.0	25
59	Cardiovascular/stroke risk predictive calculators: a comparison between statistical and machine learning models. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 919-938.	1.7	46
60	Multiclass magnetic resonance imaging brain tumor classification using artificial intelligence paradigm. <i>Computers in Biology and Medicine</i> , 2020, 122, 103804.	7.0	134
61	Two-stage artificial intelligence model for jointly measurement of atherosclerotic wall thickness and plaque burden in carotid ultrasound: A screening tool for cardiovascular/stroke risk assessment. <i>Computers in Biology and Medicine</i> , 2020, 123, 103847.	7.0	42
62	A special report on changing trends in preventive stroke/cardiovascular risk assessment via B-mode ultrasonography. , 2020, , 291-318.		4
63	Morphological Carotid Plaque Area Is Associated With Glomerular Filtration Rate: A Study of South Asian Indian Patients With Diabetes and Chronic Kidney Disease. <i>Angiology</i> , 2020, 71, 520-535.	1.8	20
64	Global perspective on carotid intima-media thickness and plaque: should the current measurement guidelines be revisited?. <i>International Angiology</i> , 2020, 38, 451-465.	0.9	39
65	Integration of estimated glomerular filtration rate biomarker in image-based cardiovascular disease/stroke risk calculator: a south Asian-Indian diabetes cohort with moderate chronic kidney disease. <i>International Angiology</i> , 2020, 39, 290-306.	0.9	16
66	Low-cost preventive screening using carotid ultrasound in patients with diabetes. <i>Frontiers in Bioscience - Landmark</i> , 2020, 25, 1132-1171.	3.0	29
67	A low-cost machine learning-based cardiovascular/stroke risk assessment system: integration of conventional factors with image phenotypes. <i>Cardiovascular Diagnosis and Therapy</i> , 2019, 9, 420-430.	1.7	54
68	Rheumatoid Arthritis: Atherosclerosis Imaging and Cardiovascular Risk Assessment Using Machine and Deep Learning-Based Tissue Characterization. <i>Current Atherosclerosis Reports</i> , 2019, 21, 7.	4.8	64
69	A Review on a Deep Learning Perspective in Brain Cancer Classification. <i>Cancers</i> , 2019, 11, 111.	3.7	253
70	A Special Report on Changing Trends in Preventive Stroke/Cardiovascular Risk Assessment Via B-Mode Ultrasonography. <i>Current Atherosclerosis Reports</i> , 2019, 21, 25.	4.8	33
71	Effect of carotid image-based phenotypes on cardiovascular risk calculator: AECRS1.0. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 1553-1566.	2.8	33
72	The present and future of deep learning in radiology. <i>European Journal of Radiology</i> , 2019, 114, 14-24.	2.6	229

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73	Ranking of stroke and cardiovascular risk factors for an optimal risk calculator design: Logistic regression approach. <i>Computers in Biology and Medicine</i> , 2019, 108, 182-195.	7.0	30
74	Statistical characterization and classification of colon microarray gene expression data using multiple machine learning paradigms. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 176, 173-193.	4.7	80
75	Ultrasound-based carotid stenosis measurement and risk stratification in diabetic cohort: a deep learning paradigm. <i>Cardiovascular Diagnosis and Therapy</i> , 2019, 9, 439-461.	1.7	35
76	Variation of degree of stenosis quantification using different energy level with dual energy CT scanner. <i>Neuroradiology</i> , 2019, 61, 285-291.	2.2	7
77	Nonlinear model for the carotid artery disease 10-year risk prediction by fusing conventional cardiovascular factors to carotid ultrasound image phenotypes: A Japanese diabetes cohort study. <i>Echocardiography</i> , 2019, 36, 345-361.	0.9	36
78	Performance evaluation of 10-year ultrasound image-based stroke/cardiovascular (CV) risk calculator by comparing against ten conventional CV risk calculators: A diabetic study. <i>Computers in Biology and Medicine</i> , 2019, 105, 125-143.	7.0	38
79	Deep learning fully convolution network for lumen characterization in diabetic patients using carotid ultrasound: a tool for stroke risk. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 543-564.	2.8	54
80	State-of-the-art review on deep learning in medical imaging. <i>Frontiers in Bioscience - Landmark</i> , 2019, 24, 392-426.	3.0	122
81	Accurate Diabetes Risk Stratification Using Machine Learning: Role of Missing Value and Outliers. <i>Journal of Medical Systems</i> , 2018, 42, 92.	3.6	166
82	Intra- and inter-operator reproducibility of automated cloud-based carotid lumen diameter ultrasound measurement. <i>Indian Heart Journal</i> , 2018, 70, 649-664.	0.5	32
83	Radiation dose and image quality of computed tomography of the supra-aortic arteries: A comparison between single-source and dual-source CT Scanners. <i>Journal of Neuroradiology</i> , 2018, 45, 136-141.	1.1	11
84	Symtosis: A liver ultrasound tissue characterization and risk stratification in optimized deep learning paradigm. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 155, 165-177.	4.7	136
85	Geometric Total Plaque Area Is an Equally Powerful Phenotype Compared With Carotid Intima-Media Thickness for Stroke Risk Assessment: A Deep Learning Approach. <i>Journal for Vascular Ultrasound</i> , 2018, 42, 162-188.	0.1	17
86	Cerebral Small Vessel Disease: A Review Focusing on Pathophysiology, Biomarkers, and Machine Learning Strategies. <i>Journal of Stroke</i> , 2018, 20, 302-320.	3.2	182
87	A Survey on Coronary Atherosclerotic Plaque Tissue Characterization in Intravascular Optical Coherence Tomography. <i>Current Atherosclerosis Reports</i> , 2018, 20, 33.	4.8	54
88	Deep learning strategy for accurate carotid intima-media thickness measurement: An ultrasound study on Japanese diabetic cohort. <i>Computers in Biology and Medicine</i> , 2018, 98, 100-117.	7.0	68
89	State-of-the-art review on automated lumen and adventitial border delineation and its measurements in carotid ultrasound. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 163, 155-168.	4.7	22
90	Calcium detection, its quantification, and grayscale morphology-based risk stratification using machine learning in multimodality big data coronary and carotid scans: A review. <i>Computers in Biology and Medicine</i> , 2018, 101, 184-198.	7.0	34

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91	Morphologic TPA (mTPA) and composite risk score for moderate carotid atherosclerotic plaque is strongly associated with HbA1c in diabetes cohort. Computers in Biology and Medicine, 2018, 101, 128-145.	7.0	25
92	Echolocency-based phenotype in carotid atherosclerosis disease for risk stratification of diabetes patients. Diabetes Research and Clinical Practice, 2018, 143, 322-331.	2.8	26
93	Automated segmental-IMT measurement in thin/thick plaque with bulb presence in carotid ultrasound from multiple scanners: Stroke risk assessment. Computer Methods and Programs in Biomedicine, 2017, 141, 73-81.	4.7	35
94	Risk stratification of 2D ultrasound-based breast lesions using hybrid feature selection in machine learning paradigm. Measurement: Journal of the International Measurement Confederation, 2017, 105, 146-157.	5.0	30
95	Plaque Tissue Morphology-Based Stroke Risk Stratification Using Carotid Ultrasound: A Polling-Based PCA Learning Paradigm. Journal of Medical Systems, 2017, 41, 98.	3.6	61
96	Stroke Risk Stratification and its Validation using Ultrasonic Echolucent Carotid Wall Plaque Morphology: A Machine Learning Paradigm. Computers in Biology and Medicine, 2017, 80, 77-96.	7.0	63
97	Accurate lumen diameter measurement in curved vessels in carotid ultrasound: an iterative scale-space and spatial transformation approach. Medical and Biological Engineering and Computing, 2017, 55, 1415-1434.	2.8	24
98	Wall-based measurement features provides an improved IVUS coronary artery risk assessment when fused with plaque texture-based features during machine learning paradigm. Computers in Biology and Medicine, 2017, 91, 198-212.	7.0	38
99	Extreme Learning Machine Framework for Risk Stratification of Fatty Liver Disease Using Ultrasound Tissue Characterization. Journal of Medical Systems, 2017, 41, 152.	3.6	95
100	Lung disease stratification using amalgamation of Riesz and Gabor transforms in machine learning framework. Computers in Biology and Medicine, 2017, 89, 197-211.	7.0	27
101	Comparative approaches for classification of diabetes mellitus data: Machine learning paradigm. Computer Methods and Programs in Biomedicine, 2017, 152, 23-34.	4.7	182
102	Web-based accurate measurements of carotid lumen diameter and stenosis severity: An ultrasound-based clinical tool for stroke risk assessment during multicenter clinical trials. Computers in Biology and Medicine, 2017, 91, 306-317.	7.0	27
103	Extracranial internal carotid artery calcium volume measurement using computer tomography. International Angiology, 2017, 36, 445-461.	0.9	14
104	Relationship between Automated Coronary Calcium Volumes and a Set of Manual Coronary Lumen Volume, Vessel Volume and Atheroma Volume in Japanese Diabetic Cohort. Journal of Clinical and Diagnostic Research JCDR, 2017, 11, TC09-TC14.	0.8	6
105	Five multiresolution-based calcium volume measurement techniques from coronary IVUS videos: A comparative approach. Computer Methods and Programs in Biomedicine, 2016, 134, 237-258.	4.7	19
106	Carotid interadventitial diameter is more strongly related to plaque score than lumen diameter: An automated tool for stroke analysis. Journal of Clinical Ultrasound, 2016, 44, 210-220.	0.8	23
107	Speckle reduction in medical ultrasound images using an unbiased non-local means method. Biomedical Signal Processing and Control, 2016, 28, 1-8.	5.7	86
108	Relationship between leukoaraiosis, carotid intima-media thickness and intima-media thickness variability: Preliminary results. European Radiology, 2016, 26, 4423-4431.	4.5	20

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109	A novel approach to multiclass psoriasis disease risk stratification: Machine learning paradigm. Biomedical Signal Processing and Control, 2016, 28, 27-40.	5.7	15
110	A Review on Atherosclerotic Biology, Wall Stiffness, Physics of Elasticity, and Its Ultrasound-Based Measurement. Current Atherosclerosis Reports, 2016, 18, 83.	4.8	40
111	Inter-observer Variability Analysis of Automatic Lung Delineation in Normal and Disease Patients. Journal of Medical Systems, 2016, 40, 142.	3.6	30
112	Accurate cloud-based smart IMT measurement, its validation and stroke risk stratification in carotid ultrasound: A web-based point-of-care tool for multicenter clinical trial. Computers in Biology and Medicine, 2016, 75, 217-234.	7.0	39
113	Two Automated Techniques for Carotid Lumen Diameter Measurement: Regional versus Boundary Approaches. Journal of Medical Systems, 2016, 40, 182.	3.6	19
114	Computer-aided diagnosis of psoriasis skin images with HOS, texture and color features: A first comparative study of its kind. Computer Methods and Programs in Biomedicine, 2016, 126, 98-109.	4.7	110
115	Reliable and Accurate Calcium Volume Measurement in Coronary Artery Using Intravascular Ultrasound Videos. Journal of Medical Systems, 2016, 40, 51.	3.6	21
116	A new method for IVUS-based coronary artery disease risk stratification: A link between coronary & carotid ultrasound plaque burdens. Computer Methods and Programs in Biomedicine, 2016, 124, 161-179.	4.7	43
117	Automated stratification of liver disease in ultrasound: An online accurate feature classification paradigm. Computer Methods and Programs in Biomedicine, 2016, 130, 118-134.	4.7	121
118	PCA-based polling strategy in machine learning framework for coronary artery disease risk assessment in intravascular ultrasound: A link between carotid and coronary grayscale plaque morphology. Computer Methods and Programs in Biomedicine, 2016, 128, 137-158.	4.7	67
119	Magnetic resonance image denoising using nonlocal maximum likelihood paradigm in DCT-framework. International Journal of Imaging Systems and Technology, 2015, 25, 256-264.	4.1	8
120	Shape-Based Approach for Coronary Calcium Lesion Volume Measurement on Intravascular Ultrasound Imaging and Its Association With Carotid Intima-Media Thickness. Journal of Ultrasound in Medicine, 2015, 34, 469-482.	1.7	40
121	First review on psoriasis severity risk stratification: An engineering perspective. Computers in Biology and Medicine, 2015, 63, 52-63.	7.0	38
122	Improved Correlation between Carotid and Coronary Atherosclerosis SYNTAX Score Using Automated Ultrasound Carotid Bulb Plaque IMT Measurement. Ultrasound in Medicine and Biology, 2015, 41, 1247-1262.	1.5	69
123	Automatic Lung Segmentation Using Control Feedback System: Morphology and Texture Paradigm. Journal of Medical Systems, 2015, 39, 22.	3.6	56
124	A comparative approach of four different image registration techniques for quantitative assessment of coronary artery calcium lesions using intravascular ultrasound. Computer Methods and Programs in Biomedicine, 2015, 118, 158-172.	4.7	51
125	Reliable and accurate psoriasis disease classification in dermatology images using comprehensive feature space in machine learning paradigm. Expert Systems With Applications, 2015, 42, 6184-6195.	7.6	71
126	Ovarian Tissue Characterization in Ultrasound. Technology in Cancer Research and Treatment, 2015, 14, 251-261.	1.9	23

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127	A Review on Carotid Ultrasound Atherosclerotic Tissue Characterization and Stroke Risk Stratification in Machine Learning Framework. <i>Current Atherosclerosis Reports</i> , 2015, 17, 55.	4.8	36
128	Exploring the color feature power for psoriasis risk stratification and classification: A data mining paradigm. <i>Computers in Biology and Medicine</i> , 2015, 65, 54-68.	7.0	52
129	Plaque Echolucency and Stroke Risk in Asymptomatic Carotid Stenosis. <i>Stroke</i> , 2015, 46, 91-97.	2.0	174
130	An automated technique for carotid far wall classification using grayscale features and wall thickness variability. <i>Journal of Clinical Ultrasound</i> , 2015, 43, 302-311.	0.8	19
131	A Review on Ultrasound-Based Thyroid Cancer Tissue Characterization and Automated Classification. <i>Technology in Cancer Research and Treatment</i> , 2014, 13, 289-301.	1.9	85
132	Asymptomatic Carotid Disease—A New Tool for Assessing Neurological Risk. <i>Echocardiography</i> , 2014, 31, 353-361.	0.9	19
133	GyneScan: An Improved Online Paradigm for Screening of Ovarian Cancer via Tissue Characterization. <i>Technology in Cancer Research and Treatment</i> , 2014, 13, 529-539.	1.9	54
134	Linear and nonlinear analysis of normal and CAD-affected heart rate signals. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 113, 55-68.	4.7	145
135	Semiautomated analysis of carotid artery wall thickness in MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1457-1467.	3.4	21
136	Automated Carotid IMT Measurement and Its Validation in Low Contrast Ultrasound Database of 885 Patient Indian Population Epidemiological Study: Results of AtheroEdge® Software. , 2014, , 209-219.		23
137	Atherosclerotic plaque tissue characterization in 2D ultrasound longitudinal carotid scans for automated classification: a paradigm for stroke risk assessment. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 513-523.	2.8	94
138	Application of higher order statistics for atrial arrhythmia classification. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 888-900.	5.7	102
139	Plaque Tissue Characterization and Classification in Ultrasound Carotid Scans: A Paradigm for Vascular Feature Amalgamation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 392-400.	4.7	42
140	Understanding symptomatology of atherosclerotic plaque by image-based tissue characterization. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 110, 66-75.	4.7	70
141	Automated classification of patients with coronary artery disease using grayscale features from left ventricle echocardiographic images. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 112, 624-632.	4.7	76
142	Prostate Tissue Characterization/Classification in 144 Patient Population Using Wavelet and Higher Order Spectra Features from Transrectal Ultrasound Images. <i>Technology in Cancer Research and Treatment</i> , 2013, 12, 545-557.	1.9	44
143	Semiautomated and Automated Algorithms for Analysis of the Carotid Artery Wall on Computed Tomography and Sonography. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 665-674.	1.7	12
144	Ovarian Tumor Characterization using 3D Ultrasound. <i>Technology in Cancer Research and Treatment</i> , 2012, 11, 543-552.	1.9	34

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145	Fully Automated Dual-Snake Formulation for Carotid Intima-Media Thickness Measurement. Journal of Ultrasound in Medicine, 2012, 31, 1123-1136.	1.7	37
146	Constrained snake vs. conventional snake for carotid ultrasound automated IMT measurements on multi-center data sets. Ultrasonics, 2012, 52, 949-961.	3.9	38
147	Atherosclerotic Risk Stratification Strategy for Carotid Arteries Using Texture-Based Features. Ultrasound in Medicine and Biology, 2012, 38, 899-915.	1.5	168
148	Ultrasound IMT measurement on a multi-ethnic and multi-institutional database: Our review and experience using four fully automated and one semi-automated methods. Computer Methods and Programs in Biomedicine, 2012, 108, 946-960.	4.7	52
149	Comparison between manual and automated analysis for the quantification of carotid wall by using sonography. A validation study with CT. European Journal of Radiology, 2012, 81, 911-918.	2.6	34
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