

Narendra N Khanna

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,512
citations

257450

24
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

1316
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	A Review on Joint Carotid Intima-Media Thickness and Plaque Area Measurement in Ultrasound for Cardiovascular/Stroke Risk Monitoring: Artificial Intelligence Framework. <i>Journal of Digital Imaging</i> , 2021, 34, 581-604.	2.9	29
10	3-D optimized classification and characterization artificial intelligence paradigm for cardiovascular/stroke risk stratification using carotid ultrasound-based delineated plaque: Atheromatic, 2.0. <i>Computers in Biology and Medicine</i> , 2020, 125, 103958.	7.0	52
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Low-cost preventive screening using carotid ultrasound in patients with diabetes. <i>Frontiers in Bioscience - Landmark</i> , 2020, 25, 1132-1171.	3.0	29
22	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
23	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
24	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
25	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
26	The present and future of deep learning in radiology. <i>European Journal of Radiology</i> , 2019, 114, 14-24.	2.6	229
27	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
28	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
29	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
30	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
31	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
32	A Survey on Coronary Atherosclerotic Plaque Tissue Characterization in Intravascular Optical Coherence Tomography. <i>Current Atherosclerosis Reports</i> , 2018, 20, 33.	4.8	54
33	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
34	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
35	Morphologic TPA (mTPA) and composite risk score for moderate carotid atherosclerotic plaque is strongly associated with HbA1c in diabetes cohort. <i>Computers in Biology and Medicine</i> , 2018, 101, 128-145.	7.0	25