

Dimitrios I Fotiadis

List of Publications by Year in descending order

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Version: 2024-02-01

276
papers

7,401
citations

94381

37
h-index

69214

77
g-index

283
all docs

283
docs citations

283
times ranked

8891
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning applications in cancer prognosis and prediction. Computational and Structural Biotechnology Journal, 2015, 13, 8-17.	1.9	2,059
2	A Long Short-Term Memory deep learning network for the prediction of epileptic seizures using EEG signals. Computers in Biology and Medicine, 2018, 99, 24-37.	3.9	399
3	Assessment of Tremor Activity in the Parkinson's Disease Using a Set of Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 478-487.	3.6	183
4	Automatic detection of freezing of gait events in patients with Parkinson's disease. Computer Methods and Programs in Biomedicine, 2013, 110, 12-26.	2.6	166
5	Heart Failure: Diagnosis, Severity Estimation and Prediction of Adverse Events Through Machine Learning Techniques. Computational and Structural Biotechnology Journal, 2017, 15, 26-47.	1.9	150
6	PERFORM: A System for Monitoring, Assessment and Management of Patients with Parkinson's Disease. Sensors, 2014, 14, 21329-21357.	2.1	139
7	Deep learning for diabetic retinopathy detection and classification based on fundus images: A review. Computers in Biology and Medicine, 2021, 135, 104599.	3.9	119
8	Real-Time Driver's Stress Event Detection. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 221-234.	4.7	108
9	Effect of the Endothelial Shear Stress Patterns on Neointimal Proliferation Following Drug-Eluting Bioresorbable Vascular Scaffold Implantation. JACC: Cardiovascular Interventions, 2014, 7, 315-324.	1.1	108
10	Standardized evaluation methodology and reference database for evaluating IVUS image segmentation. Computerized Medical Imaging and Graphics, 2014, 38, 70-90.	3.5	105
11	A method for 3D reconstruction of coronary arteries using biplane angiography and intravascular ultrasound images. Computerized Medical Imaging and Graphics, 2005, 29, 597-606.	3.5	88
12	Wearability Assessment of a Wearable System for Parkinson's Disease Remote Monitoring Based on a Body Area Network of Sensors. Sensors, 2014, 14, 17235-17255.	2.1	88
13	Velocity dispersion of guided waves propagating in a free gradient elastic plate: Application to cortical bone. Journal of the Acoustical Society of America, 2009, 125, 3414-3427.	0.5	87
14	Methodology for fully automated segmentation and plaque characterization in intracoronary optical coherence tomography images. Journal of Biomedical Optics, 2014, 19, 026009.	1.4	87
15	An Automated Method for Lumen and Media-Adventitia Border Detection in a Sequence of IVUS Frames. IEEE Transactions on Information Technology in Biomedicine, 2004, 8, 131-141.	3.6	83
16	Hybrid Intravascular Imaging. Journal of the American College of Cardiology, 2013, 61, 1369-1378.	1.2	80
17	An automated methodology for levodopa-induced dyskinesia: Assessment based on gyroscope and accelerometer signals. Artificial Intelligence in Medicine, 2012, 55, 127-135.	3.8	76
18	Ultrasonic monitoring of bone fracture healing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1243-1255.	1.7	75

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19	Electrochemical biosensor platform for TNF- α cytokines detection in both artificial and human saliva: Heart failure. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 1026-1033.	4.0	75
20	Towards Driver's State Recognition on Real Driving Conditions. <i>International Journal of Vehicular Technology</i> , 2011, 2011, 1-14.	1.1	69
21	Evaluation of short-term predictors of glucose concentration in type 1 diabetes combining feature ranking with regression models. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 1305-1318.	1.6	69
22	The Effect of Shear Stress on Neointimal Response Following Sirolimus- and Paclitaxel-Eluting Stent Implantation Compared With Bare-Metal Stents in Humans. <i>JACC: Cardiovascular Interventions</i> , 2010, 3, 1181-1189.	1.1	67
23	Medical data quality assessment: On the development of an automated framework for medical data curation. <i>Computers in Biology and Medicine</i> , 2019, 107, 270-283.	3.9	67
24	A new methodology for accurate 3-dimensional coronary artery reconstruction using routine intravascular ultrasound and angiographic data: implications for widespread assessment of endothelial shear stress in humans. <i>EuroIntervention</i> , 2013, 9, 582-593.	1.4	67
25	PD_Manager: an mHealth platform for Parkinson's disease patient management. <i>Healthcare Technology Letters</i> , 2017, 4, 102-108.	1.9	66
26	Review of Eye Tracking Metrics Involved in Emotional and Cognitive Processes. <i>IEEE Reviews in Biomedical Engineering</i> , 2023, 16, 260-277.	13.1	60
27	A novel chronoamperometric immunosensor for rapid detection of TNF- α in human saliva. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 477-484.	4.0	58
28	A Glucose Model Based on Support Vector Regression for the Prediction of Hypoglycemic Events Under Free-Living Conditions. <i>Diabetes Technology and Therapeutics</i> , 2013, 15, 634-643.	2.4	55
29	Stents: Biomechanics, Biomaterials, and Insights from Computational Modeling. <i>Annals of Biomedical Engineering</i> , 2017, 45, 853-872.	1.3	53
30	Data mining for blood glucose prediction and knowledge discovery in diabetic patients: The METABO diabetes modeling and management system. , 2009, 2009, 5633-6.		51
31	Applied machine learning in cancer research: A systematic review for patient diagnosis, classification and prognosis. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5546-5555.	1.9	47
32	A computer-aided automated methodology for the detection and classification of occlusal caries from photographic color images. <i>Computers in Biology and Medicine</i> , 2015, 62, 119-135.	3.9	46
33	Primary Sjögren's Syndrome of Early and Late Onset: Distinct Clinical Phenotypes and Lymphoma Development. <i>Frontiers in Immunology</i> , 2020, 11, 594096.	2.2	45
34	A prospective multicenter study assessing humoral immunogenicity and safety of the mRNA SARS-CoV-2 vaccines in Greek patients with systemic autoimmune and autoinflammatory rheumatic diseases. <i>Journal of Autoimmunity</i> , 2021, 125, 102743.	3.0	45
35	Patient-specific computational modeling of subendothelial LDL accumulation in a stenosed right coronary artery: effect of hemodynamic and biological factors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H1455-H1470.	1.5	42
36	Relationship of shear stress with in-stent restenosis: Bare metal stenting and the effect of brachytherapy. <i>International Journal of Cardiology</i> , 2009, 134, 25-32.	0.8	41

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37	Prediction of atherosclerotic disease progression using LDL transport modelling: a serial computed tomographic coronary angiographic study. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 11-18.	0.5	40
38	3D reconstruction of coronary arteries and atherosclerotic plaques based on computed tomography angiography images. <i>Biomedical Signal Processing and Control</i> , 2018, 40, 286-294.	3.5	40
39	The Smart-Insole Dataset: Gait Analysis Using Wearable Sensors with a Focus on Elderly and Parkinson's Patients. <i>Sensors</i> , 2021, 21, 2821.	2.1	40
40	Foot Pressure Wearable Sensors for Freezing of Gait Detection in Parkinson's Disease. <i>Sensors</i> , 2021, 21, 128.	2.1	38
41	A Novel Semiautomated Atherosclerotic Plaque Characterization Method Using Grayscale Intravascular Ultrasound Images: Comparison With Virtual Histology. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 391-400.	3.6	37
42	Wearable systems and mobile applications for diabetes disease management. <i>Health and Technology</i> , 2014, 4, 101-112.	2.1	37
43	Mining sequential patterns for protein fold recognition. <i>Journal of Biomedical Informatics</i> , 2008, 41, 165-179.	2.5	36
44	Three-dimensional reconstruction of coronary arteries and plaque morphology using CT angiography " comparison and registration with IVUS. <i>BMC Medical Imaging</i> , 2016, 16, 9.	1.4	34
45	A multiscale and multiparametric approach for modeling the progression of oral cancer. <i>BMC Medical Informatics and Decision Making</i> , 2012, 12, 136.	1.5	33
46	Cancer classification from time series microarray data through regulatory Dynamic Bayesian Networks. <i>Computers in Biology and Medicine</i> , 2020, 116, 103577.	3.9	33
47	Feasibility and Utility of mHealth for the Remote Monitoring of Parkinson Disease: Ancillary Study of the PD_manager Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , 2020, 8, e16414.	1.8	33
48	Prediction of Atherosclerotic Plaque Development in an In Vivo Coronary Arterial Segment Based on a Multilevel Modeling Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1721-1730.	2.5	32
49	Utility of Multimodality Intravascular Imaging and the Local Hemodynamic Forces to Predict Atherosclerotic Disease Progression. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1021-1032.	2.3	32
50	Automated Levodopa-induced dyskinesia assessment. , 2010, 2010, 2411-4.		30
51	Modifications of the construction and voting mechanisms of the Random Forests Algorithm. <i>Data and Knowledge Engineering</i> , 2013, 87, 41-65.	2.1	30
52	Monitoring of motor and non-motor symptoms of Parkinson's disease through a mHealth platform. , 2016, 2016, 663-666.		30
53	An automated method for gridding and clustering-based segmentation of cDNA microarray images. <i>Computerized Medical Imaging and Graphics</i> , 2009, 33, 40-49.	3.5	29
54	A robust unsupervised epileptic seizure detection methodology to accelerate large EEG database evaluation. <i>Biomedical Signal Processing and Control</i> , 2018, 40, 275-285.	3.5	29

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55	Sequence-based protein structure prediction using a reduced state-space hidden Markov model. <i>Computers in Biology and Medicine</i> , 2007, 37, 1211-1224.	3.9	28
56	Patient-Specific Simulation of Coronary Artery Pressure Measurements: An In Vivo Three-Dimensional Validation Study in Humans. <i>BioMed Research International</i> , 2015, 2015, 1-11.	0.9	28
57	Impact of local endothelial shear stress on neointima and plaque following stent implantation in patients with ST-elevation myocardial infarction: A subgroup-analysis of the COMFORTABLE AMLIBIS 4 trial. <i>International Journal of Cardiology</i> , 2015, 186, 178-185.	0.8	28
58	Noninvasive CT-based hemodynamic assessment of coronary lesions derived from fast computational analysis: a comparison against fractional flow reserve. <i>European Radiology</i> , 2019, 29, 2117-2126.	2.3	28
59	Noninvasive Prediction of Atherosclerotic Progression: The PROSPECT-MSCT Study. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1009-1011.	2.3	27
60	Designing interoperable telehealth platforms: bridging IoT devices with cloud infrastructures. <i>Enterprise Information Systems</i> , 2020, 14, 1194-1218.	3.3	27
61	A machine learning-based pipeline for modeling medical, socio-demographic, lifestyle and self-reported psychological traits as predictors of mental health outcomes after breast cancer diagnosis: An initial effort to define resilience effects. <i>Computers in Biology and Medicine</i> , 2021, 131, 104266.	3.9	27
62	A machine learning-based risk stratification model for ventricular tachycardia and heart failure in hypertrophic cardiomyopathy. <i>Computers in Biology and Medicine</i> , 2021, 135, 104648.	3.9	27
63	Application of an effective medium theory for modeling ultrasound wave propagation in healing long bones. <i>Ultrasonics</i> , 2014, 54, 1219-1230.	2.1	26
64	Sjögren's Syndrome: The Clinical Spectrum of Male Patients. <i>Journal of Clinical Medicine</i> , 2020, 9, 2620.	1.0	26
65	An automatic region based methodology for facial expression recognition. <i>Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics</i> , 2008, , .	0.0	25
66	EEG epileptic seizure detection using k-means clustering and marginal spectrum based on ensemble empirical mode decomposition. , 2013, , .		24
67	Recommendation to Use Wearable-Based mHealth in Closed-Loop Management of Acute Cardiovascular Disease Patients During the COVID-19 Pandemic. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 903-908.	3.9	24
68	A biomarker for lymphoma development in Sjogren's syndrome: Salivary gland focus score. <i>Journal of Autoimmunity</i> , 2021, 121, 102648.	3.0	24
69	Novel methodology for 3D reconstruction of carotid arteries and plaque characterization based upon magnetic resonance imaging carotid angiography data. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1068-1082.	1.0	23
70	Acceptability to patients, carers and clinicians of an mHealth platform for the management of Parkinson's disease (PD_Manager): study protocol for a pilot randomised controlled trial. <i>Trials</i> , 2018, 19, 492.	0.7	23
71	Discrimination of Preictal and Interictal Brain States from Long-Term EEG Data. , 2017, , .		22
72	Simulation of atherosclerotic plaque growth using computational biomechanics and patient-specific data. <i>Scientific Reports</i> , 2020, 10, 17409.	1.6	22

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73	Short-term prediction of glucose in type 1 diabetes using kernel adaptive filters. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 27-46.	1.6	21
74	Prognostic factors of Rapid symptoms progression in patients with newly diagnosed parkinsonâ€™s disease. <i>Artificial Intelligence in Medicine</i> , 2020, 103, 101807.	3.8	21
75	A Machine Learning Approach for Chronic Heart Failure Diagnosis. <i>Diagnostics</i> , 2021, 11, 1863.	1.3	21
76	Online prediction of glucose concentration in type 1 diabetes using extreme learning machines. , 2015, 2015, 3262-5.		20
77	A three-dimensional quantification of calcified and non-calcified plaques in coronary arteries based on computed tomography coronary angiography images: Comparison with expert's annotations and virtual histology intravascular ultrasound. <i>Computers in Biology and Medicine</i> , 2019, 113, 103409.	3.9	20
78	A Domain Enriched Deep Learning Approach to Classify Atherosclerosis Using Intravascular Ultrasound Imaging. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020, 14, 1210-1220.	7.3	20
79	Natural History of Carotid Atherosclerosis in Relation to the Hemodynamic Environment. <i>Angiology</i> , 2017, 68, 109-118.	0.8	19
80	Clinical picture, outcome and predictive factors of lymphoma in primary Sjögrenâ€™s syndrome: results from a harmonized dataset (1981â€“2021). <i>Rheumatology</i> , 2022, 61, 3576-3585.	0.9	19
81	Improving the protein fold recognition accuracy of a reduced state-space hidden Markov model. <i>Computers in Biology and Medicine</i> , 2009, 39, 907-914.	3.9	18
82	Reconstruction of Cochlea Based on Micro-CT and Histological Images of the Human Inner Ear. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	18
83	Characterization of functionally significant coronary artery disease by a coronary computed tomography angiography-based index: a comparison with positron emission tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 897-905.	0.5	18
84	An optimized sequential pattern matching methodology for sequence classification. <i>Knowledge and Information Systems</i> , 2009, 19, 249-264.	2.1	17
85	The effect of coronary bifurcation and haemodynamics in prediction of atherosclerotic plaque development: a serial computed tomographic coronary angiographic study. <i>EuroIntervention</i> , 2017, 13, e1084-e1091.	1.4	17
86	In vivo assessment of the three-dimensional haemodynamic micro-environment following drug-eluting bioresorbable vascular scaffold implantation in a human coronary artery: fusion of frequency domain optical coherence tomography and angiography. <i>EuroIntervention</i> , 2013, 9, 890-890.	1.4	17
87	HEARTEN KMS â€” A knowledge management system targeting the management of patients with heart failure. <i>Journal of Biomedical Informatics</i> , 2019, 94, 103203.	2.5	16
88	A Review of Virtual Coaching Systems in Healthcare: Closing the Loop With Real-Time Feedback. <i>Frontiers in Digital Health</i> , 2020, 2, 567502.	1.5	16
89	Optimal Localization of a Novel Shifted 1T-Ring Based Microwave Ablation Probe in Hepatocellular Carcinoma. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 505-514.	2.5	16
90	Tremor UPDRS estimation in home environment. , 2016, 2016, 3642-3645.		15

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91	A decision support system for Parkinson disease management: expert models for suggesting medication change. <i>Journal of Decision Systems</i> , 2018, 27, 164-172.	2.2	15
92	Cohort Harmonization and Integrative Analysis From a Biomedical Engineering Perspective. <i>IEEE Reviews in Biomedical Engineering</i> , 2019, 12, 303-318.	13.1	15
93	Implications of the local haemodynamic forces on the phenotype of coronary plaques. <i>Heart</i> , 2019, 105, 1078-1086.	1.2	14
94	Detection of occlusal caries based on digital image processing. , 2013, , .		13
95	Modeling and simulation of speed selection on left ventricular assist devices. <i>Computers in Biology and Medicine</i> , 2014, 51, 128-139.	3.9	13
96	A cloud-based platform for the non-invasive management of coronary artery disease. <i>Enterprise Information Systems</i> , 2020, 14, 1102-1123.	3.3	13
97	Relationship of Endothelial Shear Stress with Plaque Features with Coronary CT Angiography and Vasodilating Capability with PET. <i>Radiology</i> , 2021, 300, 549-556.	3.6	13
98	Region Based Segmentation and Classification of Multispectral Chromosome Images. <i>Proceedings of the IEEE Symposium on Computer-Based Medical Systems</i> , 2007, , .	0.0	12
99	Spot addressing for microarray images structured in hexagonal grids. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 106, 1-13.	2.6	12
100	Error propagation in the characterization of atheromatic plaque types based on imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 121, 161-174.	2.6	12
101	A Time-Frequency Based Method for the Detection of Epileptic Seizures in EEG Recordings. <i>Proceedings of the IEEE Symposium on Computer-Based Medical Systems</i> , 2007, , .	0.0	11
102	Currently available methodologies for the processing of intravascular ultrasound and optical coherence tomography images. <i>Expert Review of Cardiovascular Therapy</i> , 2014, 12, 885-900.	0.6	11
103	Short- and Long-Term Implications of a Bioresorbable Vascular Scaffold Implantation on the Local Endothelial Shear Stress Patterns. <i>JACC: Cardiovascular Interventions</i> , 2014, 7, 100-101.	1.1	11
104	Non-linear dynamic modeling of glucose in type 1 diabetes with kernel adaptive filters. , 2016, 2016, 5897-5900.		11
105	Effect of ultrasound on bone fracture healing: A computational bioregulatory model. <i>Computers in Biology and Medicine</i> , 2018, 100, 74-85.	3.9	11
106	Angiographic derived endothelial shear stress: a new predictor of atherosclerotic disease progression. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 314-322.	0.5	11
107	Point-of-Care Testing Devices for Heart Failure Analyzing Blood and Saliva Samples. <i>IEEE Reviews in Biomedical Engineering</i> , 2020, 13, 17-31.	13.1	11
108	Optimal Power for Microwave Slotted Probes in Ablating Different Hepatocellular Carcinoma Sizes. <i>Computers in Biology and Medicine</i> , 2020, 127, 104101.	3.9	11

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109	Machine Learning Approaches on High Throughput NGS Data to Unveil Mechanisms of Function in Biology and Disease. <i>Cancer Genomics and Proteomics</i> , 2021, 18, 605-626.	1.0	11
110	A computational multi-level atherosclerotic plaque growth model for coronary arteries. , 2019, 2019, 5010-5013.		10
111	Accurate Monitoring of Parkinson's Disease Symptoms With a Wearable Device During COVID-19 Pandemic. <i>In Vivo</i> , 2021, 35, 2327-2330.	0.6	10
112	A computational pipeline for data augmentation towards the improvement of disease classification and risk stratification models: A case study in two clinical domains. <i>Computers in Biology and Medicine</i> , 2021, 134, 104520.	3.9	10
113	The Evolution of mHealth Solutions for Heart Failure Management. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1067, 353-371.	0.8	9
114	Effect of ultrasound on bone fracture healing: A computational mechanobioregulatory model. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 1048-1059.	0.5	9
115	Decision Support for Medication Change of Parkinson's Disease Patients. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105552.	2.6	9
116	Microsurgery training: A combined educational program. <i>Injury</i> , 2020, 51, S131-S134.	0.7	9
117	Overcoming the Barriers That Obscure the Interlinking and Analysis of Clinical Data Through Harmonization and Incremental Learning. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 83-90.	1.7	9
118	A region based decorrelation stretching method: Application to multispectral chromosome image classification. , 2008, , .		8
119	PERFORM: A platform for monitoring and management of chronic neurodegenerative diseases: The Parkinson and Amyotrophic Lateral Sclerosis case. , 2009, , .		8
120	Short-term vs. long-term analysis of diabetes data: Application of machine learning and data mining techniques. , 2013, , .		8
121	A hybrid plaque characterization method using intravascular ultrasound images. <i>Technology and Health Care</i> , 2013, 21, 199-216.	0.5	8
122	Art care: A multi-modality coronary 3D reconstruction and hemodynamic status assessment software. <i>Technology and Health Care</i> , 2018, 26, 187-193.	0.5	8
123	A Clinical Decision Support Platform for the Risk Stratification, Diagnosis, and Prediction of Coronary Artery Disease Evolution. , 2018, 2018, 4556-4559.		8
124	Predicting lymphoma outcomes and risk factors in patients with primary Sjögren's Syndrome using gradient boosting tree ensembles. , 2019, 2019, 2165-2168.		8
125	Evaluating the Performance of Balance Physiotherapy Exercises Using a Sensory Platform: The Basis for a Persuasive Balance Rehabilitation Virtual Coaching System. <i>Frontiers in Digital Health</i> , 2020, 2, 545885.	1.5	8
126	A computational workflow for the detection of candidate diagnostic biomarkers of Kawasaki disease using time-series gene expression data. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3058-3068.	1.9	8

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127	Education on palliative care for Parkinson patients: development of the "Best care for people with late-stage Parkinson's disease" curriculum toolkit. BMC Medical Education, 2021, 21, 538.	1.0	8
128	Serum Biomarkers in Carotid Artery Disease. Diagnostics, 2021, 11, 2143.	1.3	8
129	Combined seronegativity in Sjögren's syndrome. Clinical and Experimental Rheumatology, 2021, 39, 80-84.	0.4	8
130	A wearable system for long-term ubiquitous monitoring of common motor symptoms in patients with Parkinson's disease. , 2014, , .		7
131	Quantitative micro-CT based coronary artery profiling using interactive local thresholding and cylindrical coordinates. Technology and Health Care, 2015, 23, 557-570.	0.5	7
132	A novel hybrid approach for reconstruction of coronary bifurcations using angiography and OCT. , 2017, 2017, 588-591.		7
133	Virtual Resting Pd/Pa From Coronary Angiography and Blood Flow Modelling: Diagnostic Performance Against Fractional Flow Reserve. Heart Lung and Circulation, 2018, 27, 377-380.	0.2	7
134	A Machine Learning Approach for the Prediction of the Progression of Cardiovascular Disease based on Clinical and Non-Invasive Imaging Data. , 2018, 2018, 6108-6111.		7
135	Virtual Functional Assessment of Coronary Stenoses Using Intravascular Ultrasound Imaging: A Proof-of-Concept Pilot Study. Heart Lung and Circulation, 2019, 28, e33-e36.	0.2	7
136	The TAXINOMISIS Project: A multidisciplinary approach for the development of a new risk stratification model for patients with asymptomatic carotid artery stenosis. European Journal of Clinical Investigation, 2020, 50, e13411.	1.7	7
137	Salivary Biomarkers for Diagnosis and Therapy Monitoring in Patients with Heart Failure. A Systematic Review. Diagnostics, 2021, 11, 824.	1.3	7
138	Configurable Offline Sensor Placement Identification for a Medical Device Monitoring Parkinson's Disease. Sensors, 2021, 21, 7801.	2.1	7
139	3D Reconstruction and Volume Estimation of Food using Stereo Vision Techniques. , 2021, , .		7
140	Addressing the clinical unmet needs in primary Sjögren's Syndrome through the sharing, harmonization and federated analysis of 21 European cohorts. Computational and Structural Biotechnology Journal, 2022, 20, 471-484.	1.9	7
141	An Automated Method for Gridding in Microarray Images. , 2006, 2006, 5876-9.		6
142	Intelligent patient profiling for diagnosis, staging and treatment selection in colon cancer. , 2008, , .		6
143	A Gaussian Mixture Model to detect suction events in rotary blood pumps. , 2012, , .		6
144	Prediction of oral cancer recurrence using dynamic Bayesian networks. , 2016, 2016, 5275-5278.		6

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145	Site specific prediction of atherosclerotic plaque progression using computational biomechanics and machine learning. , 2019, 2019, 6998-7001.		6
146	Types and sources of medical and other related data. , 2020, , 19-65.		6
147	SmartFFR, a New Functional Index of Coronary Stenosis: Comparison With Invasive FFR Data. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 714471.	1.1	6
148	Impact of Endothelial Shear Stress on Absorption Process of Resorbable Magnesium Scaffold: A BIOSOLVE-II Substudy. <i>Cardiovascular Revascularization Medicine</i> , 2021, 29, 9-15.	0.3	6
149	Developing a genomic-based point-of-care diagnostic system for rheumatoid arthritis and multiple sclerosis. , 2009, 2009, 827-30.		5
150	Assessment of optimized Markov models in protein fold classification. <i>Journal of Bioinformatics and Computational Biology</i> , 2014, 12, 1450016.	0.3	5
151	High-frequency cortical backscatter reveals cortical microstructure - A simulation study. , 2015, , .		5
152	A generalized methodology for the gridding of microarray images with rectangular or hexagonal grid. <i>Signal, Image and Video Processing</i> , 2016, 10, 719-728.	1.7	5
153	Estimation of New York Heart Association class in heart failure patients based on machine learning techniques. , 2017, , .		5
154	Kernel-based adaptive learning improves accuracy of glucose predictive modelling in type 1 diabetes: A proof-of-concept study. , 2017, 2017, 2765-2768.		5
155	KardiaTool: An Integrated POC Solution for Non-invasive Diagnosis and Therapy Monitoring of Heart Failure Patients. , 2018, 2018, 3878-3881.		5
156	Achieving adherence in home-based rehabilitation with novel human machine interactions that stimulate community-dwelling older adults. , 2019, , .		5
157	Editorial commentary: The pleiotropic effect of statins on the atherosclerotic plaque and coronary heart disease. <i>Trends in Cardiovascular Medicine</i> , 2019, 29, 456-457.	2.3	5
158	Predictive Models of Coronary Artery Disease Based on Computational Modeling: The SMARTool System. , 2019, 2019, 7002-7005.		5
159	Generation of Virtual Patients for in Silico Cardiomyopathies Drug Development. , 2019, , .		5
160	A Novel Approach to Generate a Virtual Population of Human Coronary Arteries for In Silico Clinical Trials of Stent Design. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2021, 2, 201-209.	1.7	5
161	A Review of Automated Methodologies for the Detection of Epileptic Episodes Using Long-Term EEG Signals. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2016, , 231-261.	0.1	5
162	Diagnostic accuracy and usability of the EMBalance decision support system for vestibular disorders in primary care: proof of concept randomised controlled study results. <i>Journal of Neurology</i> , 2022, 269, 2584-2598.	1.8	5

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163	Computational modeling of atherosclerotic plaque progression in carotid lesions with moderate degree of stenosis*. , 2021, 2021, 4209-4212.		5
164	Disease Progression of Hypertrophic Cardiomyopathy: Modeling Using Machine Learning. JMIR Medical Informatics, 2022, 10, e30483.	1.3	5
165	Towards a Digital Twin of Coronary Stenting: A Suitable and Validated Image-Based Approach for Mimicking Patient-Specific Coronary Arteries. Electronics (Switzerland), 2022, 11, 502.	1.8	5
166	A Machine Learning Model for the Identification of High risk Carotid Atherosclerotic Plaques. , 2021, 2021, 2266-2269.		5
167	A Multimodal Approach for the Risk Prediction of Intensive Care and Mortality in Patients with COVID-19. Diagnostics, 2022, 12, 56.	1.3	5
168	An automated supervised method for the diagnosis of Alzheimer's disease based on fMRI data using weighted voting schemes. , 2008, , .		4
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