

George A Rigas

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,491
citations

471371

17
h-index

360920

35
g-index

66
all docs

66
docs citations

66
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	IVUS Longitudinal and Axial Registration for Atherosclerosis Progression Evaluation. <i>Diagnostics</i> , 2021, 11, 1513.	1.3	2
3	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
4	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
5	Configurable Offline Sensor Placement Identification for a Medical Device Monitoring Parkinson's Disease. <i>Sensors</i> , 2021, 21, 7801.	2.1	7
6	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
7	Decision Support for Medication Change of Parkinson's Disease Patients. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105552.	2.6	9
8	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
9	A Three-Dimensional Quantification of Calcified and Non-calcified Plaque Based on Computed Tomography Coronary Angiography Images: Comparison with Virtual Histology Intravascular Ultrasound. <i>IFMBE Proceedings</i> , 2019, , 207-211.	0.2	1
10	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
11	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
12	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
13	InSilc: 3D Reconstruction and plaque characterization tool. , 2018, 2018, 4528-4531.		4
14	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
15	Available Computational Techniques to Model Atherosclerotic Plaque Progression Implementing a Multi-Level Approach. , 2017, , 39-55.		0
16	PD_Manager: an mHealth platform for Parkinson's disease patient management. <i>Healthcare Technology Letters</i> , 2017, 4, 102-108.	1.9	66
17	A novel hybrid approach for reconstruction of coronary bifurcations using angiography and OCT. , 2017, 2017, 588-591.		7
18	Sequential vs concurrent epirubicin and docetaxel as adjuvant chemotherapy for high-risk, node-negative, early breast cancer: an interim analysis of a randomised phase III study from the Hellenic Oncology Research Group. <i>British Journal of Cancer</i> , 2017, 117, 164-170.	2.9	9

#	ARTICLE	IF	CITATIONS
19	SMARTool: A tool for clinical decision support for the management of patients with coronary artery disease based on modeling of atherosclerotic plaque process. , 2017, 2017, 96-99.		18
20	Computational estimation of the hemodynamic significance of coronary stenoses in arterial branches deriving from CCTA: A proof-of-concept study. , 2017, 2017, 1348-1351.		2
21	Assessment of Groundwater Quality by Chemometrics. Water Environment Research, 2016, 88, 631-643.	1.3	0
22	Mining balance disorders' data for the development of diagnostic decision support systems. Computers in Biology and Medicine, 2016, 77, 240-248.	3.9	24
23	Biweekly Carboplatin Plus Gemcitabine as First-Line Treatment of Elderly Patients With Advanced Squamous Nonâ€“Small-cell Lung Cancer: A Multicenter Phase I-II Trial by the Hellenic Oncology Research Group. Clinical Lung Cancer, 2016, 17, 543-549.	1.1	10
24	Monitoring of motor and non-motor symptoms of Parkinson's disease through a mHealth platform. , 2016, 2016, 663-666.		30
25	Tremor UPDRS estimation in home environment. , 2016, 2016, 3642-3645.		15
26	Prediction of oral cancer recurrence using dynamic Bayesian networks. , 2016, 2016, 5275-5278.		6
27	Three-dimensional reconstruction of coronary arteries and plaque morphology using CT angiography â€“ comparison and registration with IVUS. BMC Medical Imaging, 2016, 16, 9.	1.4	34
28	Prediction of time dependent survival in HF patients after VAD implantation using pre- and post-operative data. Computers in Biology and Medicine, 2016, 70, 99-105.	3.9	4
29	Fluid-structure interaction analysis of anastomosis in patient specific arterial segment. , 2015, , .		0
30	Effect of modeling parameters on the frequency response of the middle ear by means of finite element analysis. , 2015, 2015, 925-8.		1
31	Three-dimensional reconstruction of coronary arteries and plaque morphology using CT angiography - comparison and registration using IVUS. , 2015, 2015, 5638-41.		2
32	Diagnosis of balance disorders using decision support systems based on data mining techniques. , 2015, , .		1
33	A computational study of ligaments effect in middle ear chain anatomy behavior. , 2015, , .		2
34	Modeling of blood flow through sutured micro-vascular anastomoses. , 2015, 2015, 1877-80.		6
35	Computerized methodology for micro-CT and histological data inflation using an IVUS based translation map. Computers in Biology and Medicine, 2015, 65, 168-176.	3.9	2
36	Error propagation in the characterization of atheromatic plaque types based on imaging. Computer Methods and Programs in Biomedicine, 2015, 121, 161-174.	2.6	12

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37	Methodology for micro-CT data inflation using intravascular ultrasound images. , 2014, 2014, 1099-102.		0
38	PERFORM: A System for Monitoring, Assessment and Management of Patients with Parkinsonâ€™s Disease. Sensors, 2014, 14, 21329-21357.	2.1	139
39	Reconstruction of Cochlea Based on Micro-CT and Histological Images of the Human Inner Ear. BioMed Research International, 2014, 2014, 1-7.	0.9	18
40	A dynamic Bayesian network approach for time-specific survival probability prediction in patients after ventricular assist device implantation. , 2014, 2014, 3172-5.		1
41	Methodology for fully automated segmentation and plaque characterization in intracoronary optical coherence tomography images. Journal of Biomedical Optics, 2014, 19, 026009.	1.4	87
42	Modeling and simulation of speed selection on left ventricular assist devices. Computers in Biology and Medicine, 2014, 51, 128-139.	3.9	13
43	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
44	Fully automated calcium detection using optical coherence tomography. , 2013, 2013, 1430-3.		11
45	Hierarchical Similarity Transformations Between Gaussian Mixtures. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1824-1835.	7.2	4
46	Assessment and Modeling of Routinely Used Biochemical Laboratory Data of Healthy Individuals and End-Stage Renal Failure (ESRF) Patients by Three Different Chemometric Methods. Journal of Clinical Laboratory Analysis, 2013, 27, 211-219.	0.9	0
47	A Gaussian Mixture Model to detect suction events in rotary blood pumps. , 2012, , .		6
48	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
49	Assessment of Tremor Activity in the Parkinsonâ€™s Disease Using a Set of Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 478-487.	3.6	183
50	Real-Time Driver's Stress Event Detection. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 221-234.	4.7	108
51	Modelling of Oral Cancer Progression Using Dynamic Bayesian Networks. Springer Optimization and Its Applications, 2012, , 199-212.	0.6	4
52	A wearable system for the affective monitoring of car racing drivers during simulated conditions. Transportation Research Part C: Emerging Technologies, 2011, 19, 541-551.	3.9	54
53	Towards Driver's State Recognition on Real Driving Conditions. International Journal of Vehicular Technology, 2011, 2011, 1-14.	1.1	69
54	Towards building a Dynamic Bayesian Network for monitoring oral cancer progression using time-course gene expression data. , 2010, , .		2

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55	A decision support tool for optimal Levodopa administration in Parkinson's disease. , 2010, , .		4
56	Real-time quantification of resting tremor in the Parkinson's disease. , 2009, 2009, 1306-9.		28
57	PERFORM: First steps in the assessment of patient motion status and support to treatment changes. , 2009, , .		0
58	IWAY: Towards highway vehicle-2-vehicle communication and driver support. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	4
59	Towards Advanced Information Fusion for Driver Assistant Systems of Modern Vehicles. , 2008, , .		3
60	A reasoning-based framework for car driver’s stress prediction. , 2008, , .		24