Alexandros T Tzallas

List of Publications by Year
in descending order

145 papers	3,205 citations	218592 26 h-index	175177 52 g-index
145 all docs	145 docs citations	145 times ranked	3729 citing authors

#	Article	IF	Citations
1	Train RBF networks with a hybrid genetic algorithm. Evolutionary Intelligence, 2023, 16, 375-381.	2.3	7
2	Scalable Consensus Over Finite Capacities in Multiagent IoT Ecosystems. IEEE Internet of Things Journal, 2023, 10, 6673-6688.	5.5	1
3	A Two-Phase Evolutionary Method to Train RBF Networks. Applied Sciences (Switzerland), 2022, 12, 2439.	1.3	2
4	Modifications for the Differential Evolution Algorithm. Symmetry, 2022, 14, 447.	1.1	5
5	Automatic Hemiplegia Type Detection (Right or Left) Using the Levenberg-Marquardt Backpropagation Method. Information (Switzerland), 2022, 13, 101.	1.7	4
6	Deep Learning on Histopathological Images for Colorectal Cancer Diagnosis: A Systematic Review. Diagnostics, 2022, 12, 837.	1.3	33
7	Ensemble Convolutional Neural Network Classification for Pancreatic Steatosis Assessment in Biopsy Images. Information (Switzerland), 2022, 13, 160.	1.7	3
8	Classification of EEG signals from young adults with dyslexia combining a Brain Computer Interface device and an Interactive Linguistic Software Tool. Biomedical Signal Processing and Control, 2022, 76, 103646.	3.5	18
9	A Traffic-Load-Based Algorithm for Wireless Sensor Networks' Lifetime Extension. Information (Switzerland), 2022, 13, 202.	1.7	0
10	Heterogeneous hybrid extreme learning machine for temperature sensor accuracy improvement. Expert Systems With Applications, 2022, 203, 117488.	4.4	3
11	RbfDeSolver: A Software Tool to Approximate Differential Equations Using Radial Basis Functions. Axioms, 2022, 11, 294.	0.9	0
12	Improving the PSO method for global optimization problems. Evolving Systems, 2021, 12, 875-883.	2.4	6
13	A Novel Sampling Technique for Multistart-Based Methods. SN Computer Science, 2021, 2, 1.	2.3	1
14	Machine Learning Algorithms and Statistical Approaches for Alzheimer's Disease Analysis Based on Resting-State EEG Recordings: A Systematic Review. International Journal of Neural Systems, 2021, 31, 2130002.	3.2	47
15	First Impression of Greek University Students on Taking Massive e-Exams due to COVID-19 Pandemic. Biology Engineering Medicine and Science Reports, 2021, 7, 11-12.	0.5	0
16	EEG-Based Eye Movement Recognition Using Brain–Computer Interface and Random Forests. Sensors, 2021, 21, 2339.	2.1	34
17	Circulating microRNAs Related to Bone Metabolism in HIV-Associated Bone Loss. Biomedicines, 2021, 9, 443.	1.4	2
18	THE CONTRIBUTION OF EEG RECORDINGS TO THE AUDIOVISUAL RECOGNITION OF WORDS IN UNIVERSITY STUDENTS WITH DYSLEXIA. , 2021, , .		1

#	Article	IF	Citations
19	IoT Micro-Blockchain Fundamentals. Sensors, 2021, 21, 2784.	2.1	12
20	Modelling Hydrocortisone Pharmacokinetics on a Subcutaneous Pulsatile Infusion Replacement Strategy in Patients with Adrenocortical Insufficiency. Pharmaceutics, 2021, 13, 769.	2.0	2
21	Continuous Non-Invasive Glucose Monitoring via Contact Lenses: Current Approaches and Future Perspectives. Biosensors, 2021, 11, 189.	2.3	29
22	Alzheimerâ€™s Disease and Frontotemporal Dementia: A Robust Classification Method of EEG Signals and a Comparison of Validation Methods. Diagnostics, 2021, 11, 1437.	1.3	42
23	An evolutionary algorithm-based optimization method for the classification and quantification of steatosis prevalence in liver biopsy images. Array, 2021, 11, 100078.	2.5	2
24	A Hospital Healthcare Monitoring System Using Internet of Things Technologies. , 2021, , .		2
25	Automatic Parkinson's tremor assessment with data analysis from daily activities. , 2021, , .		0
26	Active touch classification using EEG signals. , 2021, , .		2
27	A Traffic Load-based Algorithm for Extending the Lifetime of Wireless Sensor Networks. , 2021, , .		1
28	Neural Network-Based approach for Hemiplegia Detection via Accelerometer Signals. , 2021, , .		0
29	An Improved Controlled Random Search Method. Symmetry, 2021, 13, 1981.	1.1	1
30	GenClass: A parallel tool for data classification based on Grammatical Evolution. SoftwareX, 2021, 16, 100830.	1.2	6
31	Training of Deep Convolutional Neural Networks to Identify Critical Liver Alterations in Histopathology Image Samples. Applied Sciences (Switzerland), 2020, 10, 42.	1.3	20
32	High-Throughput, Machine Learningâ€"Based Quantification of Steatosis, Inflammation, Ballooning, and Fibrosis in Biopsies From Patients With Nonalcoholic Fatty Liver Disease. Clinical Gastroenterology and Hepatology, 2020, 18, 2081-2090.e9.	2.4	85
33	Sex hormone levels in drug-naïve, first-episode patients with psychosis. International Journal of Psychiatry in Clinical Practice, 2020, 24, 20-24.	1.2	7
34	A novel classification via clustering algorithm for fibrosis assessment in liver biopsies. Health and Technology, 2020, 10, 777-785.	2.1	1
35	Self-Adaptive Hybrid Extreme Learning Machine for Heterogeneous Neural Networks. , 2020, , .		0
36	Stopping rules for a parallel genetic algorithm. International Journal of Computational Intelligence Studies, 2020, 9, 146.	0.3	0

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37	Improving the Accuracy of Low-Cost Sensor Measurements for Freezer Automation. Sensors, 2020, 20, 6389.	2.1	9
38	A Lifetime Extension Framework for Wireless Sensor Networks. , 2020, , .		0
39	Transfer Learning versus Custom CNN Architectures in NAFLD Biopsy Images. , 2020, , .		7
40	Locate the Bounding Box of Neural Networks with Intervals. Neural Processing Letters, 2020, 52, 2241-2251.	2.0	0
41	Expression of Circulating MicroRNAs Linked to Bone Metabolism in Chronic Kidney Disease-Mineral and Bone Disorder. Biomedicines, 2020, 8, 601.	1.4	8
42	Using the Allen gene expression atlas of the adult mouse brain to gain further insight into the physiological significance of TAG-1/Contactin-2. Brain Structure and Function, 2020, 225, 2045-2056.	1.2	5
43	Quantification of Liver Fibrosisâ€"A Comparative Study. Applied Sciences (Switzerland), 2020, 10, 447.	1.3	27
44	Stopping rules for a parallel genetic algorithm. International Journal of Computational Intelligence Studies, 2020, 9, 146.	0.3	0
45	Fetal Heart Beat detection based on Empirical Mode Decomposition, Signal Quality Indices and Correlation Analysis. , 2020, , .		1
46	Motor data analysis of Parkinsonâ€™s disease patients. , 2020, , .		1
47	Optimum Capacity over Power Consumption Requirements in MIMO Systems. , 2019, , .		1
48	NNC: A tool based on Grammatical Evolution for data classification and differential equation solving. SoftwareX, 2019, 10, 100297.	1.2	2
49	Hybrid extreme learning machine approach for heterogeneous neural networks. Neurocomputing, 2019, 361, 137-150.	3.5	19
50	THU-331-Derivation and validation of a cardiovascular risk score for prediction of major acute cardiovascular events in non-alcoholic fatty liver disease: The importance of an elevated mean platelet volume. Journal of Hepatology, 2019, 70, e305.	1.8	0
51	Deep Learning in Liver Biopsies using Convolutional Neural Networks. , 2019, , .		4
52	Utilization of the allen gene expression atlas to gain further insight into glucocorticoid physiology in the adult mouse brain. Neuroscience Letters, 2019, 706, 194-200.	1.0	4
53	SAT-294-Automated quantitation of steatosis, inflammation, ballooning and fibrosis using machine learning in routine histological images of liver biopsies of patients with NAFLD. Journal of Hepatology, 2019, 70, e767-e768.	1.8	0
54	EEG Window Length Evaluation for the Detection of Alzheimerâ€™s Disease over Different Brain Regions. Brain Sciences, 2019, 9, 81.	1.1	35

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55	Derivation and validation of a cardiovascular risk score for prediction of major acute cardiovascular events in nonâ€‘alcoholic fatty liver disease; the importance of an elevated mean platelet volume. Alimentary Pharmacology and Therapeutics, 2019, 49, 1077-1085.	1.9	35
56	Analysis of electroencephalographic signals complexity regarding Alzheimer's Disease. Computers and Electrical Engineering, 2019, 76, 198-212.	3.0	35
57	Automated Assessment of Pain Intensity Based on EEG Signal Analysis. , 2019, , .		4
58	A robust methodology for classification of epileptic seizures in EEG signals. Health and Technology, 2019, 9, 135-142.	2.1	66
59	OneAppy: An Interactive Platform Providing Novel Marketing Channels and Promoting Product and Services to the Tourism Industry. Springer Proceedings in Business and Economics, 2019, , 559-568.	0.3	0
60	Genetic Feature Construction Genetic Feature Construction: a parallel implementation of a genetic programming tool for feature construction. European Journal of Engineering Research and Science, 2019, 4, 5-11.	0.3	0
61	Genetic Feature Construction: a parallel implementation of a genetic programming tool for feature construction. European Journal of Education and Pedagogy, 2019, 4, 5-11.	0.2	0
62	Lipofuscin is detected in early stages of the disease in liver biopsies of patients with Non-Alcoholic Fatty Liver Disease. Journal of Hepatology, 2018, 68, S819.	1.8	1
63	Random Forests with Stochastic Induction of Decision Trees. , 2018, , .		9
64	Exercise Training Attenuates the Development of Cardiac Autonomic Dysfunction in Diabetic Rats. In Vivo, 2018, 32, 1433-1441.	0.6	10
65	Direct Assessment of Alcohol Consumption in Mental State Using Brain Computer Interfaces and Grammatical Evolution. Inventions, 2018, 3, 51.	1.3	10
66	A mobile application for the management and follow-up of patients with Non-Alcoholic Fatty Liver Disease. Journal of Hepatology, 2018, 68, S819.	1.8	0
67	Designing a gamified social platform for people living with dementia and their live-in family caregivers. , 2018, , .		4
68	Fat Droplets Identification in Liver Biopsies using Supervised Learning Techniques. , 2018, , .		1
69	Hybrid extreme learning machine approach for homogeneous neural networks. Neurocomputing, 2018, 311, 397-412.	3.5	7
70	Evolutionary Based Weight Decaying Method for Neural Network Training. Neural Processing Letters, 2018, 47, 463.	2.0	4
71	Evaluation of window size in classification of epileptic short-term EEG signals using a Brain Computer Interface software. Engineering, Technology & Applied Science Research, 2018, 8, 3093-3097.	0.8	11
72	Development and validation of an automated system for assessment of liver steatosis and fibrosis in routine histological images in patients with Non-Alcoholic Fatty Liver Disease. Journal of Hepatology, 2017, 66, S589-S590.	1.8	0

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73	A methodology for automated CPA extraction using liver biopsy image analysis and machine learning techniques. Computer Methods and Programs in Biomedicine, 2017, 140, 61-68.	2.6	17
74	The severity of steatosis does not influence liver stiffness measurements in patients with Non-Alcoholic Fatty Liver Disease. Journal of Hepatology, 2017, 66, S586-S587.	1.8	0
75	PWE-093â€¦Development and validation of an automated system for assessment of liver steatosis and fibrosis in routine: histological images in patients with non-alcoholic fatty liver disease. , 2017, , .		0
76	Changes in the cytokine profile in first-episode, drug-naÃ¯ve patients with psychosis after short-term antipsychotic treatment. Psychiatry Research, 2017, 256, 378-383.	1.7	11
77	EEG Classification and Short-Term Epilepsy Prognosis Using Brain Computer Interface Software. , 2017, , .		7
78	Gamification in Social Networking: A Platform for People Living with Dementia and their Caregivers. , 2017, , .		5
79	Wavelet Based Classification of Epileptic Seizures in EEG Signals. , 2017, , .		16
80	AB0411â€¦Comparison of tuberculin skin test and interferon-gamma release assay screening in patients with rheumatoid arthritis starting anti-tumor necrosis factor therapy. , 2017, , .		0
81	Automated Collagen Proportional Area Extraction in Liver Biopsy Images Using a Novel Classification via Clustering Algorithm. , 2017, , .		8
82	PWE-094â€¦The severity of steatosis does not influence liver stiffness measurements in patients with non-alcoholic fatty liver disease. , 2017, , .		0
83	Protein Structure Recognition by Means of Sequential Pattern Mining. , 2017, , .		1
84	Image Enhancement of Routine Biopsies: A Case for Liver Tissue Detection. , 2017, , .		2
85	Automated Detection of Liver Histopathological Findings Based on Biopsy Image Processing. Information (Switzerland), 2017, 8, 36.	1.7	10
86	Measuring Steatosis in Liver Biopsies Using Machine Learning and Morphological Imaging. , 2017, , .		3
87	Automated Hepatic Steatosis Assessment through Liver Biopsy Image Processing. , 2016, , .		1
88	Classification of EEG signals using feature creation produced by grammatical evolution. , 2016, , .		3
89	NeuralGenesis: A software for distributed neural network training. , 2016, , .		0
90	Elevated levels of Insulin-like Growth Factor-1 (IGF-1) in drug-naÃ¯ve patients with psychosis. Psychiatry Research, 2016, 246, 348-352.	1.7	11

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91	PDoublePop: An implementation of parallel genetic algorithm for function optimization. Computer Physics Communications, 2016, 209, 183-189.	3.0	17
92	Prolactin levels in drug-naïve patients with schizophrenia and other psychotic disorders. International Journal of Psychiatry in Clinical Practice, 2016, 20, 165-169.	1.2	31
93	A generalized methodology for the gridding of microarray images with rectangular or hexagonal grid. Signal, Image and Video Processing, 2016, 10, 719-728.	1.7	5
94	A Review of Automated Methodologies for the Detection of Epileptic Episodes Using Long-Term EEG Signals. Advances in Medical Diagnosis, Treatment, and Care, 2016, , 231-261.	0.1	5
95	Beliefs about Medicines Questionnaire (BMQ) in inflammatory bowel disease patients in Greece. Î™s this useful?. European Journal for Person Centered Healthcare, 2016, 4, 187.	0.3	2
96	A clustering based method for collagen proportional area extraction in liver biopsy images. , 2015, 2015, 3097-100.		16
97	A cardiovascular simulator tailored for training and clinical uses. Journal of Biomedical Informatics, 2015, 57, 100-112.	2.5	31
98	Cytokine profile in drug-naïve, first episode patients with psychosis. Journal of Psychosomatic Research, 2015, 79, 324-327.	1.2	18
99	Parameters of glucose and lipid metabolism at the fasted state in drug-naïve first-episode patients with psychosis: Evidence for insulin resistance. Psychiatry Research, 2015, 229, 901-904.	1.7	42
100	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
101	PERFORM: A System for Monitoring, Assessment and Management of Patients with Parkinson's Disease. Sensors, 2014, 14, 21329-21357.	2.1	139
102	A wearable system for long-term ubiquitous monitoring of common motor symptoms in patients with Parkinson's disease. , 2014, , .		7
103	Modeling and simulation of speed selection on left ventricular assist devices. Computers in Biology and Medicine, 2014, 51, 128-139.	3.9	13
104	Effects of Pre- and Postconditioning on Arrhythmogenesis in the In Vivo Rat Model. Journal of Cardiovascular Pharmacology and Therapeutics, 2013, 18, 376-385.	1.0	11
105	EEG epileptic seizure detection using k-means clustering and marginal spectrum based on ensemble empirical mode decomposition. , 2013, , .		24
106	Segmentation of microarray images using pixel classification—Comparison with clustering-based methods. Computers in Biology and Medicine, 2013, 43, 705-716.	3.9	21
107	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
108	Denoising simulated EEG signals: A comparative study of EMD, wavelet transform and Kalman filter. , 2013, , .		14

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109	Adverse event prediction in patients with left ventricular assist devices. , 2013, 2013, 1314-7.		3
110	An automatic electroencephalography blinking artefact detection and removal method based on template matching and ensemble empirical mode decomposition. , 2013, 2013, 5853-6.		12
111	Effects of Exercise in Diabetic Rats Using Continuous Wavelet Transform. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 41-49.	0.2	0
112	Automated knowledge-based fuzzy models generation for weaning of patients receiving Ventricular Assist Device (VAD) therapy. , 2012, 2012, 2206-9.		3
113	A treatment decision support system for patients receiving Ventricular Assist Device (VAD) therapy. , 2012, , .		2
114	Knowledge editor and execution engine development for optimal ventricular assist device weaning. , 2012, 2012, 1262-5.		0
115	A Gaussian Mixture Model to detect suction events in rotary blood pumps. , 2012, , .		6
116	Using partial decision trees to predict Parkinson's symptoms: A new approach for diagnosis and therapy in patients suffering from Parkinson's disease. Computers in Biology and Medicine, 2012, 42, 195-204.	3.9	31
117	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
118	Spot addressing for microarray images structured in hexagonal grids. Computer Methods and Programs in Biomedicine, 2012, 106, 1-13.	2.6	12
119	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
120	On automated assessment of Levodopa-induced dyskinesia in Parkinson's disease. , 2011, 2011, 2679-82.		10
121	On Assessing Motor Disorders in Parkinson's Disease. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 35-38.	0.2	5
122	Chronic skeletal muscle ischemia in rats decreases the inducibility of ventricular tachyarrhythmias after myocardial infarction. In Vivo, 2011, 25, 781-6.	0.6	1
123	Endothelin-B receptors and ventricular arrhythmogenesis in the rat model of acute myocardial infarction. Basic Research in Cardiology, 2010, 105, 235-245.	2.5	28
124	Automated Levodopa-induced dyskinesia assessment. , 2010, 2010, 2411-4.		30
125	Data analysis of Genome-Wide Association studies (GWAS) concerning rheumatoid arthritis and multiple sclerosis. , 2010, , .		0
126	A decision support tool for optimal Levodopa administration in Parkinson's disease. , 2010, , .		4

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127	An Automated Method for Levodopa-Induced Dyskinesia Detection and Severity Classification. IFMBE Proceedings, 2010, , 592-595.	0.2	1
128	Real-time quantification of resting tremor in the Parkinson's disease. , 2009, 2009, 1306-9.		28
129	Epileptic Seizure Detection in EEGs Using Time&#x2013;Frequency Analysis. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 703-710.	3.6	614
130	An automated method for gridding and clustering-based segmentation of cDNA microarray images. Computerized Medical Imaging and Graphics, 2009, 33, 40-49.	3.5	29
131	PERFORM: First steps in the assessment of patient motion status and support to treatment changes. , 2009, , .		0
132	A Multichannel Watershed-Based Segmentation Method for Multispectral Chromosome Classification. IEEE Transactions on Medical Imaging, 2008, 27, 697-708.	5.4	50
133	Effects of dual endothelin receptor blockade on sympathetic activation and arrhythmogenesis during acute myocardial infarction in rats. European Journal of Pharmacology, 2008, 580, 241-249.	1.7	23
134	A classification-based segmentation of cDNA microarray images using Support Vector machines. , 2008, 2008, 875-8.		10
135	Multichannel Segmentation of cDNA Microarray Images using the Bayes Classifier. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3466-9.	0.5	3
136	Automatic Seizure Detection Based on Time-Frequency Analysis and Artificial Neural Networks. Computational Intelligence and Neuroscience, 2007, 2007, 1-13.	1.1	358
137	The Use of Time-Frequency Distributions for Epileptic Seizure Detection in EEG Recordings. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3-6.	0.5	41
138	Region Based Segmentation and Classification of Multispectral Chromosome Images. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	12
139	A Time-Frequency Based Method for the Detection of Epileptic Seizures in EEG Recordings. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	11
140	A Kalman filter based methodology for EEG spike enhancement. Computer Methods and Programs in Biomedicine, 2007, 85, 101-108.	2.6	71
141	Epileptic Spike Detection Using a Kalman Filter Based Approach. , 2006, 2006, 501-4.		40
142	EEG Transient Event Detection and Classification Using Association Rules. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 451-457.	3.6	63
143	Epileptic Spike Detection Using a Kalman Filter Based Approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
144	An Automated Method for Gridding in Microarray Images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0

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145	Associations of 25-hydroxyvitamin D with major components of metabolic syndrome in children. Bone Abstracts, 0, , .	0.0	0