Vasile Palade

List of Publications by Year
in descending order

137 papers	4,811 citations	270111 25 h-index	124990 64 g-index
141 all docs	141 docs citations	141 times ranked	5404 citing authors

#	Article	IF	Citations
1	An Effective Swarm Intelligence Optimization Algorithm for Flexible Ligand Docking. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2672-2684.	1.9	3
2	Predicting the Public Adoption of Connected and Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1680-1688.	4.7	13
3	An integrated framework for diagnosing process faults with incomplete features. Knowledge and Information Systems, 2022, 64, 75-93.	2.1	2
4	An agent-based optimisation approach for vehicle routing problem with unique vehicle location and depot. Expert Systems With Applications, 2022, 192, 116370.	4.4	5
5	Brain Tumor Classification Using a Combination of Variational Autoencoders and Generative Adversarial Networks. Biomedicines, 2022, 10, 223.	1.4	31
6	Generative Adversarial Networks: AÂSurvey onÂTraining, Variants, andÂApplications. Intelligent Systems Reference Library, 2022, , 7-29.	1.0	7
7	Word representation using refined contexts. Applied Intelligence, 2022, 52, 12347-12368.	3.3	2
8	Resilient Consensus Control Design for DC Microgrids against False Data Injection Attacks Using a Distributed Bank of Sliding Mode Observers. Sensors, 2022, 22, 2644.	2.1	10
9	Convolution neural networks for pothole detection of critical road infrastructure. Computers and Electrical Engineering, 2022, 99, 107725.	3.0	38
10	RDPSOVina: the random drift particle swarm optimization for protein–ligand docking. Journal of Computer-Aided Molecular Design, 2022, 36, 415-425.	1.3	2
11	Parallel multi-swarm cooperative particle swarm optimization for protein–ligand docking and virtual screening. BMC Bioinformatics, 2022, 23, .	1.2	0
12	Scenario Optimisation and Sensitivity Analysis for Safe Automated Driving Using Gaussian Processes. Applied Sciences (Switzerland), 2021, 11, 775.	1.3	11
13	Generation of Pedestrian Crossing Scenarios Using Ped-Cross Generative Adversarial Network. Applied Sciences (Switzerland), 2021, 11, 471.	1.3	9
14	Learning to Localise Automated Vehicles in Challenging Environments Using Inertial Navigation Systems (INS). Applied Sciences (Switzerland), 2021, 11, 1270.	1.3	22
15	Adversarial Learning on Incomplete and Imbalanced Medical Data for Robust Survival Prediction of Liver Transplant Patients. IEEE Access, 2021, 9, 73641-73650.	2.6	8
16	Guest Editorial: Special Issue on Deep Representation and Transfer Learning for Smart and Connected Health. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 464-465.	7.2	2
17	A Quaternion Gated Recurrent Unit Neural Network for Sensor Fusion. Information (Switzerland), 2021, 12, 117.	1.7	13
18	MSLDOCK: Multi-Swarm Optimization for Flexible Ligand Docking and Virtual Screening. Journal of Chemical Information and Modeling, 2021, 61, 1500-1515.	2.5	3

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19	IO-VNBD: Inertial and Odometry benchmark dataset for ground vehicle positioning. Data in Brief, 2021, 35, 106885.	0.5	8
20	Efficient activity recognition using lightweight CNN and DS-GRU network for surveillance applications. Applied Soft Computing Journal, 2021, 103, 107102.	4.1	72
21	Generative Adversarial Network-Based Scheme for Diagnosing Faults in Cyber-Physical Power Systems. Sensors, 2021, 21, 5173.	2.1	6
22	Diversity collaboratively guided random drift particle swarm optimization. International Journal of Machine Learning and Cybernetics, 2021, 12, 2617-2638.	2.3	1
23	Centralised and Decentralised Sensor Fusion-Based Emergency Brake Assist. Sensors, 2021, 21, 5422.	2.1	5
24	DMO-QPSO: A Multi-Objective Quantum-Behaved Particle Swarm Optimization Algorithm Based on Decomposition with Diversity Control. Mathematics, 2021, 9, 1959.	1.1	9
25	A Hybrid Framework for Detecting and Eliminating Cyber-Attacks in Power Grids. Energies, 2021, 14, 5823.	1.6	11
26	WhONet: Wheel Odometry neural Network for vehicular localisation in GNSS-deprived environments. Engineering Applications of Artificial Intelligence, 2021, 105, 104421.	4.3	15
27	Vehicular Localisation at High and Low Estimation Rates During GNSS Outages: A Deep Learning Approach. Advances in Intelligent Systems and Computing, 2021, , 229-248.	0.5	7
28	Pedestrian and Vehicle Detection in Autonomous Vehicle Perception Systemsâ€"A Review. Sensors, 2021, 21, 7267.	2.1	23
29	Improving Skin Cancer Classification Using Heavy-Tailed Student T-Distribution in Generative Adversarial Networks (TED-GAN). Diagnostics, 2021, 11, 2147.	1.3	22
30	Constrained Generative Adversarial Learning for Dimensionality Reduction. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	4
31	Using Generative Adversarial Networks and Non-Roadside Video Data to Generate Pedestrian Crossing Scenarios. , 2021, , .		0
32	Edge Intelligence-Assisted Smoke Detection in Foggy Surveillance Environments. IEEE Transactions on Industrial Informatics, 2020, 16, 1067-1075.	7.2	87
33	DeepReS: A Deep Learning-Based Video Summarization Strategy for Resource-Constrained Industrial Surveillance Scenarios. IEEE Transactions on Industrial Informatics, 2020, 16, 5938-5947.	7.2	61
34	A Leap from Randomized to Quantum Clustering with Support Vector Machine - A Computation Complexity Analysis. , 2020, , .		0
35	Neural network approach for solving nonlocal boundary value problems. Neural Computing and Applications, 2020, 32, 14153-14171.	3.2	6
36	Diversity-guided Lamarckian random drift particle swarm optimization for flexible ligand docking. BMC Bioinformatics, 2020, 21, 286.	1.2	5

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37	An investigation on support vector clustering for big data in quantum paradigm. Quantum Information Processing, 2020, 19, 1.	1.0	6
38	Image Processing and Machine Learning Techniques for Diabetic Retinopathy Detection: A Review. Lecture Notes in Computer Science, 2020, , 136-154.	1.0	6
39	Fuzzy Image Processing and Deep Learning for Microaneurysms Detection. Lecture Notes in Computer Science, 2020, , 321-339.	1.0	2
40	Gaussian kernel in quantum learning. International Journal of Quantum Information, 2020, 18, 2050006.	0.6	4
41	Collaborative diversity control strategy for random drift particle swarm optimization. , 2019, , .		0
42	Deep Q-Learning for Illumination and Rotation Invariant Face Detection. , 2019, , .		2
43	Hierarchical Clustering Based Band Selection Algorithm for Hyperspectral Face Recognition. IEEE Access, 2019, 7, 24333-24342.	2.6	15
44	Generation of Pedestrian Pose Structures using Generative Adversarial Networks. , 2019, , .		2
45	Deep Learning for Flood Forecasting and Monitoring in Urban Environments. , 2019, , .		11
46	Design of a Cost-Effective Deep Convolutional Neural Network–Based Scheme for Diagnosing Faults in Smart Grids. , 2019, , .		7
47	Word Representation With Salient Features. IEEE Access, 2019, 7, 30157-30173.	2.6	5
48	Interactive machine learning: experimental evidence for the human in the algorithmic loop. Applied Intelligence, 2019, 49, 2401-2414.	3.3	151
49	Detection of Diabetic Retinopathy and Maculopathy in Eye Fundus Images Using Deep Learning and Image Augmentation. Lecture Notes in Computer Science, 2019, , 114-127.	1.0	10
50	A hybrid deep learning neural approach for emotion recognition from facial expressions for socially assistive robots. Neural Computing and Applications, 2018, 29, 359-373.	3.2	52
51	A Constrained Fuzzy Knowledge-Based System for the Management of Container Yard Operations. International Journal of Fuzzy Systems, 2018, 20, 1205-1223.	2.3	5
52	Detailed Identification of Fingerprints Using Convolutional Neural Networks. , 2018, , .		11
53	Quantum Supervised Clustering Algorithm for Big Data. , 2018, , .		2
54	Graph Regularized Low-Rank Representation for Semi-Supervised Learning. , 2018, , .		0

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55	Winds of Change: How Up-To-Date Forecasting Methods Could Help Change Brazilian Wind Energy Policy and Save Billions of US$. Energies, 2018, 11, 2952.	1.6	2
56	Robust Structured Low-Rank Representation for Image Segmentation. International Journal on Artificial Intelligence Tools, 2018, 27, 1850020.	0.7	3
57	Improving Sentiment Analysis in Arabic Using Word Representation. , 2018, , .		37
58	Deep Learning for Illumination Invariant Facial Expression Recognition. , 2018, , .		8
59	An all-pair quantum SVM approach for big data multiclass classification. Quantum Information Processing, 2018, 17, 1.	1.0	25
60	A stacked deep autoencoder model for biomedical figure classification. , 2018, , .		3
61	Emergency management using geographic information systems: application to the first Romanian traveling salesman problem instance. Knowledge and Information Systems, 2017, 50, 265-285.	2.1	18
62	Towards Integrative Machine Learning and Knowledge Extraction. Lecture Notes in Computer Science, 2017, , 1-12.	1.0	7
63	Adaptive incremental ensemble of extreme learning machines for fault diagnosis in induction motors. , 2017, , .		10
64	Stacked deep convolutional auto-encoders for emotion recognition from facial expressions. , 2017, , .		28
65	A Hybrid Ensemble Scheme for Diagnosing New Class Defects under Non-stationary and Class Imbalance Conditions. , 2017, , .		6
66	Big data classification with quantum multiclass SVM and quantum one-against-all approach. , 2016, , .		13
67	Automatic detection of microaneurysms in colour fundus images for diabetic retinopathy screening. Neural Computing and Applications, 2016, 27, 1149-1164.	3.2	43
68	Automatic screening and classification of diabetic retinopathy and maculopathy using fuzzy image processing. Brain Informatics, 2016, 3, 249-267.	1.8	78
69	Invasive weed classification. Neural Computing and Applications, 2015, 26, 525-539.	3.2	8
70	Adaptive Web QoS controller based on online system identification using quantum-behaved particle swarm optimization. Soft Computing, 2015, 19, 1715-1725.	2.1	13
71	Uncovering highly obfuscated plagiarism cases using fuzzy semantic-based similarity model. Journal of King Saud University - Computer and Information Sciences, 2015, 27, 248-268.	2.7	11
72	Random drift particle swarm optimization algorithm: convergence analysis and parameter selection. Machine Learning, 2015, 101, 345-376.	3.4	64

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73	Special Issue ofQuantitative Financeon â€˜Financial Data Analyticsâ€™. Quantitative Finance, 2015, 15, 1617-1617.	0.9	1
74	Detection of Diabetic Retinopathy and Maculopathy in Eye Fundus Images Using Fuzzy Image Processing. Lecture Notes in Computer Science, 2015, , 379-388.	1.0	25
75	Automatic Detection of Microaneurysms for Diabetic Retinopathy Screening Using Fuzzy Image Processing. Communications in Computer and Information Science, 2015, , 69-79.	0.4	11
76	Darwin, Lamarck, or Baldwin: Applying Evolutionary Algorithms to Machine Learning Techniques. , 2014, , .		8
77	Optimal detection of new classes of faults by an Invasive Weed Optimization method. , 2014, , .		21
78	Efficient residuals pre-processing for diagnosing multi-class faults in a doubly fed induction generator, under missing data scenarios. Expert Systems With Applications, 2014, 41, 6386-6399.	4.4	29
79	Solving the Power Economic Dispatch Problem With Generator Constraints by Random Drift Particle Swarm Optimization. IEEE Transactions on Industrial Informatics, 2014, 10, 222-232.	7.2	155
80	Multiple Sequence Alignment with Hidden Markov Models Learned by Random Drift Particle Swarm Optimization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 243-257.	1.9	20
81	Biochemical systems identification by a random drift particle swarm optimization approach. BMC Bioinformatics, 2014, 15, S1.	1.2	23
82	Automatic Screening and Classification of Diabetic Retinopathy Fundus Images. Communications in Computer and Information Science, 2014, , 113-122.	0.4	18
83	An insight into classification with imbalanced data: Empirical results and current trends on using data intrinsic characteristics. Information Sciences, 2013, 250, 113-141.	4.0	1,158
84	DENSE STRUCTURAL EXPECTATION MAXIMISATION WITH PARALLELISATION FOR EFFICIENT LARGE-NETWORK STRUCTURAL INFERENCE. International Journal on Artificial Intelligence Tools, 2013, 22, 1350011.	0.7	3
85	New Trends in Web User Behaviour Analysis. Studies in Computational Intelligence, 2013, , 1-10.	0.7	4
86	Optimizing the Performance of a Refrigeration System Using an Invasive Weed Optimization Algorithm. Smart Innovation, Systems and Technologies, 2013, , 79-93.	0.5	3
87	Hybrid Approach of Genetic Programming and Quantum-Behaved Particle Swarm Optimization for Modeling and Optimization of Fermentation Processes. Smart Innovation, Systems and Technologies, 2013, , 117-136.	0.5	0
88	Training ANFIS Parameters with a Quantum-behaved Particle Swarm Optimization Algorithm. Lecture Notes in Computer Science, 2012, , 148-155.	1.0	10
89	Study on the compression-expansion coefficient in drift particle swarm optimization. , 2012, , .		0
90	ADJUSTED GEOMETRIC-MEAN: A NOVEL PERFORMANCE MEASURE FOR IMBALANCED BIOINFORMATICS DATASETS LEARNING. Journal of Bioinformatics and Computational Biology, 2012, 10, 1250003.	0.3	46

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91	Selection of Significant On-Road Sensor Data for Short-Term Traffic Flow Forecasting Using the Taguchi Method. IEEE Transactions on Industrial Informatics, 2012, 8, 255-266.	7.2	38
92	Quantum-Behaved Particle Swarm Optimization: Analysis of Individual Particle Behavior and Parameter Selection. Evolutionary Computation, 2012, 20, 349-393.	2.3	283
93	Convergence analysis and improvements of quantum-behaved particle swarm optimization. Information Sciences, 2012, 193, 81-103.	4.0	172
94	Using structural information and citation evidence to detect significant plagiarism cases in scientific publications. Journal of the Association for Information Science and Technology, 2012, 63, 286-312.	2.6	15
95	Tracking Multiple Optima in Dynamic Environments by Quantum-Behavior Particle Swarm Using Speciation. International Journal of Swarm Intelligence Research, 2012, 3, 55-76.	0.5	1
96	iPlag: Intelligent Plagiarism Reasoner in scientific publications. , 2011, , .		9
97	Building interpretable fuzzy models for high dimensional data analysis in cancer diagnosis. BMC Genomics, 2011, 12, S5.	1.2	22
98	A CUSTOMIZABLE FUZZY SYSTEM FOR OFFLINE HANDWRITTEN CHARACTER RECOGNITION. International Journal on Artificial Intelligence Tools, 2011, 20, 425-455.	0.7	4
99	Quantum-behaved particle swarm optimization with Gaussian distributed local attractor point. Applied Mathematics and Computation, 2011, 218, 3763-3775.	1.4	168
100	Ensemble of Elman neural networks and support vector machines for reverse engineering of gene regulatory networks. Applied Soft Computing Journal, 2011, 11, 1718-1726.	4.1	26
101	Web Ad-Slot Offline Scheduling Using an Ant Colony Algorithm. , 2011, , .		2
102	Efficient resampling methods for training support vector machines with imbalanced datasets. , 2010, , .		67
103	FSVM-CIL: Fuzzy Support Vector Machines for Class Imbalance Learning. IEEE Transactions on Fuzzy Systems, 2010, 18, 558-571.	6.5	325
104	GreenSim: A Network Simulator for Comprehensively Validating and Evaluating New Machine Learning Techniques for Network Structural Inference. , 2010, , .		2
105	On a Multiobjective Training Algorithm for RBF Networks Using Particle Swarm Optimization. , 2010, , .		0
106	Multi-objective evolutionary algorithms based Interpretable Fuzzy models for microarray gene expression data analysis. , 2010, , .		1
107	*microPred*: effective classification of pre-miRNAs for human miRNA gene prediction. Bioinformatics, 2009, 25, 989-995.	1.8	227
108	Signal denoising in engineering problems through the minimum gradient method. Neurocomputing, 2009, 72, 2270-2275.	3.5	8

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109	Model-based fault detection and isolation of a steam generator using neuro-fuzzy networks. Neurocomputing, 2009, 72, 2939-2951.	3.5	84
110	Noise Reduction in a Non-Homogenous Ground Penetrating Radar Problem by Multiobjective Neural Networks. IEEE Transactions on Magnetics, 2009, 45, 1454-1457.	1.2	10
111	Machine Learning and Genetic Regulatory Networks: A Review and a Roadmap. Studies in Computational Intelligence, 2009, , 3-34.	0.7	4
112	A New Performance Measure for Class Imbalance Learning. Application to Bioinformatics Problems. , 2009, , .		31
113	NEURO-FUZZY BASED FAULT DIAGNOSIS OF A STEAM GENERATOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1180-1185.	0.4	15
114	The Minimum Gradient Complexity Control Applied to Sensitivity Extraction of Electromagnetic Devices. IEEE Transactions on Magnetics, 2008, 44, 1114-1117.	1.2	0
115	The Q-Norm Complexity Measure and the Minimum Gradient Method: A Novel Approach to the Machine Learning Structural Risk Minimization Problem. IEEE Transactions on Neural Networks, 2008, 19, 1415-1430.	4.8	28
116	An improved non-comparative classification method for human microRNA gene prediction. , 2008, , .		4
117	Filtering Noise in Regression Problems Using a Multiobjective Leaning Algorithm. , 2008, , .		0
118	BUILDING A KNOWLEDGE BASE FOR IMPLEMENTING A WEB-BASED COMPUTERIZED RECOMMENDATION SYSTEM. International Journal on Artificial Intelligence Tools, 2007, 16, 793-828.	0.7	15
119	Genetic Algorithm Approach to Construction of Specialized Multi-Classifier Systems: Application to DNA Analysis. , 2007, , .		2
120	A Comprehensive Fuzzy-Based Framework for Cancer Microarray Data Gene Expression Analysis. , 2007, , .		11
121	A Knowledge Base for the maintenance of knowledge extracted from web data. Knowledge-Based Systems, 2007, 20, 238-248.	4.0	17
122	A Neuro-Genetic Framework for Multi-Classifier Design: An Application to Promoter Recognition in DNA Sequences. Studies in Computational Intelligence, 2007, , 71-94.	0.7	1
123	Neuro-Fuzzy Ensemble Approach for Microarray Cancer Gene Expression Data Analysis. , 2006, , .		60
124	Multi-Classifier Systems: Review and a roadmap for developers. International Journal of Hybrid Intelligent Systems, 2006, 3, 35-61.	0.9	136
125	Testing Online Navigation Recommendations in a Web Site. Lecture Notes in Computer Science, 2006, , 487-496.	1.0	3
126	Computational Intelligence Methodologies in Fault Diagnosis: Review and State of the Art. , 2006, , 1-36.		7

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127	MultiNNProm: A Multi-Classifier System for Finding Genes. , 2006, , 451-463.		0
128	Practical applications of neural networks. Neural Computing and Applications, 2005, 14, 95-96.	3.2	2
129	A neural network based multi-classifier system for gene identification in DNA sequences. Neural Computing and Applications, 2005, 14, 122-131.	3.2	60
130	Human-like fault diagnosis using a neural network implementation of plausibility and relevance. Neural Computing and Applications, 2005, 14, 149-165.	3.2	6
131	Fuzzy-based Refinement of the Fault Diagnosis Task in Industrial Devices. Journal of Intelligent Manufacturing, 2005, 16, 599-614.	4.4	11
132	Automatic fuzzy rule base generation for on-line handwritten alphanumeric character recognition. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2005, 9, 327-339.	0.7	7
133	A neuro-fuzzy approach for functional genomics data interpretation and analysis. Neural Computing and Applications, 2003, 12, 153-159.	3.2	12
134	FAULT DIAGNOSIS OF AN INDUSTRIAL GAS TURBINE USING NEURO-FUZZY METHODS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 471-476.	0.4	37
135	NEURO-FUZZY BASED FAULT DIAGNOSIS APPLIED TO AN ELECTRO-PNEUMATIC VALVE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 477-482.	0.4	14
136	Neural and Neuro-Fuzzy Integration in a Knowledge-Based System for Air Quality Prediction. Applied Intelligence, 2002, 17, 141-169.	3.3	17
137	An improved Gaussian distribution based quantum-behaved particle swarm optimization algorithm for engineering shape design problems. Engineering Optimization, 0, , 1-27.	1.5	8