

# Dawid PoÅ,ap

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8125365/publications.pdf>

Version: 2024-02-01

110  
papers

2,310  
citations

257357

24  
h-index

254106

43  
g-index

111  
all docs

111  
docs citations

111  
times ranked

1932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview and methods of correlation filter algorithms in object tracking. <i>Complex &amp; Intelligent Systems</i> , 2021, 7, 1895.	4.0	222
2	Red fox optimization algorithm. <i>Expert Systems With Applications</i> , 2021, 166, 114107.	4.4	207
3	Polar Bear Optimization Algorithm: Meta-Heuristic with Fast Population Movement and Dynamic Birth and Death Mechanism. <i>Symmetry</i> , 2017, 9, 203.	1.1	129
4	A regional adaptive variational PDE model for computed tomography image reconstruction. <i>Pattern Recognition</i> , 2019, 92, 64-81.	5.1	122
5	A neuro-heuristic approach for recognition of lung diseases from X-ray images. <i>Expert Systems With Applications</i> , 2019, 126, 218-232.	4.4	112
6	Small lung nodules detection based on local variance analysis and probabilistic neural network. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 161, 173-180.	2.6	75
7	Small Lung Nodules Detection Based on Fuzzy-Logic and Probabilistic Neural Network With Bioinspired Reinforcement Learning. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 1178-1189.	6.5	61
8	Multi-threaded learning control mechanism for neural networks. <i>Future Generation Computer Systems</i> , 2018, 87, 16-34.	4.9	55
9	An Intelligent System for Monitoring Skin Diseases. <i>Sensors</i> , 2018, 18, 2552.	2.1	55
10	Adaptive neuro-heuristic hybrid model for fruit peel defects detection. <i>Neural Networks</i> , 2018, 98, 16-33.	3.3	54
11	Bio-inspired methods modeled for respiratory disease detection from medical images. <i>Swarm and Evolutionary Computation</i> , 2018, 41, 69-96.	4.5	53
12	Agent architecture of an intelligent medical system based on federated learning and blockchain technology. <i>Journal of Information Security and Applications</i> , 2021, 58, 102748.	1.8	52
13	Body Pose Prediction Based on Motion Sensor Data and Recurrent Neural Network. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 2101-2111.	7.2	48
14	Blockchain Technology and Neural Networks for the Internet of Medical Things. , 2020, , .		42
15	An adaptive genetic algorithm as a supporting mechanism for microscopy image analysis in a cascade of convolution neural networks. <i>Applied Soft Computing Journal</i> , 2020, 97, 106824.	4.1	40
16	Object detection and recognition via clustered features. <i>Neurocomputing</i> , 2018, 320, 76-84.	3.5	38
17	A Smartphone Application for Automated Decision Support in Cognitive Task Based Evaluation of Central Nervous System Motor Disorders. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1865-1876.	3.9	37
18	Analysis of Skin Marks Through the Use of Intelligent Things. <i>IEEE Access</i> , 2019, 7, 149355-149363.	2.6	35

#	ARTICLE	IF	CITATIONS
19	Side-Scan Sonar Analysis Using ROI Analysis and Deep Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-8.	2.7	35
20	Hybrid neuro-heuristic methodology for simulation and control of dynamic systems over time interval. Neural Networks, 2017, 93, 45-56.	3.3	32
21	Multi-Level Features Extraction for Discontinuous Target Tracking in Remote Sensing Image Monitoring. Sensors, 2019, 19, 4855.	2.1	32
22	Ensemble machine learning approaches for webshell detection in Internet of things environments. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4085.	2.6	32
23	Meta-heuristic as manager in federated learning approaches for image processing purposes. Applied Soft Computing Journal, 2021, 113, 107872.	4.1	30
24	Real-time neural network based predictor for cov19 virus spread. PLoS ONE, 2020, 15, e0243189.	1.1	28
25	Intelligent Home Systems for Ubiquitous User Support by Using Neural Networks and Rule-Based Approach. IEEE Transactions on Industrial Informatics, 2020, 16, 2651-2658.	7.2	26
26	Automatic ship classification for a riverside monitoring system using a cascade of artificial intelligence techniques including penalties and rewards. ISA Transactions, 2021, 121, 232-232.	3.1	26
27	Neural image reconstruction using a heuristic validation mechanism. Neural Computing and Applications, 2021, 33, 10787-10797.	3.2	25
28	Automated fluorescence microscopy image analysis of Pseudomonas aeruginosa bacteria in alive and dead stadium. Engineering Applications of Artificial Intelligence, 2018, 67, 100-110.	4.3	24
29	Fuzzy Consensus With Federated Learning Method in Medical Systems. IEEE Access, 2021, 9, 150383-150392.	2.6	24
30	Parallel Technique for the Metaheuristic Algorithms Using Devoted Local Search and Manipulating the Solutions Space. Applied Sciences (Switzerland), 2018, 8, 293.	1.3	23
31	Bio-inspired voice evaluation mechanism. Applied Soft Computing Journal, 2019, 80, 342-357.	4.1	22
32	Chest radiographs segmentation by the use of nature-inspired algorithm for lung disease detection. , 2018, , .		21
33	Simplified firefly algorithm for 2D image key-points search. , 2014, , .		20
34	Graphic object feature extraction system based on Cuckoo Search Algorithm. Expert Systems With Applications, 2016, 66, 20-31.	4.4	19
35	Obstacle Detection as a Safety Alert in Augmented Reality Models by the Use of Deep Learning Techniques. Sensors, 2017, 17, 2803.	2.1	19
36	Basic Concept of Cuckoo Search Algorithm for 2D Images Processing with Some Research Results - An Idea to Apply Cuckoo Search Algorithm in 2D Images Key-points Search. , 2014, , .		18

#	ARTICLE	IF	CITATIONS
37	Bacteria shape classification by the use of region covariance and Convolutional Neural Network. , 2019, , .		17
38	A hybridization of distributed policy and heuristic augmentation for improving federated learning approach. Neural Networks, 2022, 146, 130-140.	3.3	17
39	Soft trees with neural components as image-processing technique for archeological excavations. Personal and Ubiquitous Computing, 2020, 24, 363-375.	1.9	16
40	A Multi-Agent Gamification System for Managing Smart Homes. Sensors, 2019, 19, 1249.	2.1	15
41	Classification of Non-Conventional Ships Using a Neural Bag-Of-Words Mechanism. Sensors, 2020, 20, 1608.	2.1	15
42	On Some Aspects of Genetic and Evolutionary Methods for Optimization Purposes. International Journal of Electronics and Telecommunications, 2015, 61, 7-16.	0.6	14
43	Novel approach toward medical signals classifier. , 2015, , .		13
44	Heat production optimization using bio-inspired algorithms. Engineering Applications of Artificial Intelligence, 2018, 76, 185-201.	4.3	13
45	Strengthening the perception of the virtual worlds in a virtual reality environment. ISA Transactions, 2020, 102, 397-406.	3.1	13
46	Visualization of physiologic signals based on Hjorth parameters and Gramian Angular Fields. , 2018, , .		12
47	Real-Time Cloud-based Game Management System via Cuckoo Search Algorithm. International Journal of Electronics and Telecommunications, 2015, 61, 333-338.	0.6	11
48	Fully Flexible Parallel Merge Sort for Multicore Architectures. Complexity, 2018, 2018, 1-19.	0.9	11
49	A First Attempt to Cloud-Based User Verification in Distributed System. , 2015, , .		10
50	Study on Remote Sensing Image Vegetation Classification Method Based on Decision Tree Classifier. , 2018, , .		10
51	Voice recognition by neuro-heuristic method. Tsinghua Science and Technology, 2019, 24, 9-17.	4.1	10
52	A Neural Network Pattern Recognition Approach to Automatic Rainfall Classification by Using Signal Strength in LTE/4G Networks. Lecture Notes in Computer Science, 2017, , 505-512.	1.0	10
53	A Soft Body Physics Simulator with Computational Offloading to the Cloud. Information (Switzerland), 2018, 9, 318.	1.7	9
54	Automatic Classification Using Machine Learning for Non-Conventional Vessels on Inland Waters. Sensors, 2019, 19, 3051.	2.1	9

#	ARTICLE	IF	CITATIONS
55	Intelligent automation of dental material analysis using robotic arm with Jerk optimized trajectory. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 6223-6234.	3.3	9
56	Voice recognition through the use of Gabor transform and heuristic algorithm. International Journal of Electronics and Telecommunications, 2017, 63, 159-164.	0.6	9
57	Can We Process 2D Images Using Artificial Bee Colony?. Lecture Notes in Computer Science, 2015, , 660-671.	1.0	8
58	Is the Colony of Ants Able to Recognize Graphic Objects?. Communications in Computer and Information Science, 2015, , 376-387.	0.4	8
59	Bilinear Semi-Tensor Product Attention (BSTPA) model for visual question answering. , 2020, , .		7
60	A heuristic approach to the hyperparameters in training spiking neural networks using spike-timing-dependent plasticity. Neural Computing and Applications, 2022, 34, 13187-13200.	3.2	7
61	Is Swarm Intelligence Able to Create Mazes?. International Journal of Electronics and Telecommunications, 2015, 61, 305-310.	0.6	6
62	Flexible Neural Network Architecture for Handwritten Signatures Recognition. International Journal of Electronics and Telecommunications, 2016, 62, 197-202.	0.6	6
63	Introduction to the Model of the Active Assistance System for Elder and Disabled People. Communications in Computer and Information Science, 2016, , 392-403.	0.4	6
64	Encoder-Decoder Based CNN Structure for Microscopic Image Identification. Lecture Notes in Computer Science, 2020, , 301-312.	1.0	6
65	Photo-Electro Characterization and Modeling of Organic Light-Emitting Diodes by Using a Radial Basis Neural Network. Lecture Notes in Computer Science, 2017, , 378-389.	1.0	6
66	Block Matching Based Obstacle Avoidance for Unmanned Aerial Vehicle. Lecture Notes in Computer Science, 2018, , 58-69.	1.0	6
67	Human-machine interaction in intelligent technologies using the augmented reality. Information Technology and Control, 2018, 47, .	1.1	6
68	Voice control in mixed reality. , 0, , .		6
69	Design of action correction assistant system in physical education teaching and training based on .NET platform. Mobile Networks and Applications, 2022, 27, 1228-1239.	2.2	6
70	A Novel Approach Toward X-RAY Images Classifier. , 2015, , .		5
71	Radiation heat transfer optimization by the use of modified ant lion optimizer. , 2017, , .		5
72	Iterative Design and Implementation of Rapid Gradient Descent Method. Lecture Notes in Computer Science, 2019, , 530-539.	1.0	5

#	ARTICLE	IF	CITATIONS
73	In Vitro Analysis of Quality of Dental Adhesive Bond Systems Applied in Various Conditions. Coatings, 2020, 10, 891.	1.2	5
74	Efficient Visual Classification by Fuzzy Rules. , 2020, , .		5
75	Spline Interpolation and Deep Neural Networks as Feature Extractors for Signature Verification Purposes. IEEE Internet of Things Journal, 2023, 10, 2152-2161.	5.5	5
76	A Real-Time Audio Compression Technique Based on Fast Wavelet Filtering and Encoding. , 0, , .		5
77	On manipulation of initial population search space in heuristic algorithm through the use of parallel processing approach. , 2016, , .		4
78	Detection of saliency map as image feature outliers using random projections based method. , 2017, , .		4
79	Image approach to voice recognition. , 2017, , .		4
80	Polar Bear Optimization For Industrial Computed Tomography With Incomplete Data. , 2021, , .		4
81	Image features extractor based on hybridization of fuzzy controller and meta-heuristic. , 2021, , .		4
82	Lung segmentation on x-ray images with neural validation. , 2017, , .		3
83	Neuro-heuristic voice recognition. , 0, , .		3
84	Application of Bio-Inspired Methods in Distributed Gaming Systems. Information Technology and Control, 2017, 46, .	1.1	3
85	Toward 2D Image Classifier Based on Firefly Algorithm with Simplified Sobel Filter. , 2015, , .		2
86	Gamification of Eye Exercises for Evaluating Eye Fatigue. Lecture Notes in Computer Science, 2019, , 104-114.	1.0	2
87	Environment Recognition based on Images using Bag-of-Words. , 2017, , .		2
88	Federated Learning Model with Augmentation and Samples Exchange Mechanism. Lecture Notes in Computer Science, 2021, , 214-223.	1.0	2
89	Combining SVD and Co-occurrence Matrix Information to Recognize Organic Solar Cells Defects with a Elliptical Basis Function Network Classifier. Lecture Notes in Computer Science, 2017, , 518-532.	1.0	2
90	The Impact of the Cost Function on the Operation of the Intelligent Agent in 2D Games. Communications in Computer and Information Science, 2018, , 293-302.	0.4	2

#	ARTICLE	IF	CITATIONS
91	Environment Scene Classification Based on Images Using Bag-of-Words. Studies in Computational Intelligence, 2019, , 281-303.	0.7	2
92	Signature analysis system using a convolutional neural network. , 2019, , .		1
93	Meta-heuristic Algorithm As Feature Selector For Convolutional Neural Networks. , 2021, , .		1
94	Toward adaptive heuristic video frames capturing and correction in real-time. , 0, , .		1
95	The use of wavelet transformation in conjunction with a heuristic algorithm as a tool for feature extraction from signals. Information Technology and Control, 2017, 46, .	1.1	1
96	Exploiting OSC Models by Using Neural Networks with an Innovative Pruning Algorithm. Lecture Notes in Computer Science, 2018, , 711-722.	1.0	1
97	Interpolation merge as augmentation technique in the problem of ship classification. , 0, , .		1
98	Collaborative learning with taboos for machine learning methods in big data problems. , 2020, , .		1
99	SURF Algorithm with Convolutional Neural Network as Face Recognition Technique. Lecture Notes in Computer Science, 2020, , 95-102.	1.0	1
100	Multi-agent Architecture for Internet of Medical Things. Lecture Notes in Computer Science, 2020, , 49-58.	1.0	1
101	Empirical Mode Decomposition Based Data Augmentation for Time Series Prediction Using NARX Network. Lecture Notes in Computer Science, 2020, , 702-711.	1.0	1
102	Extraction of specific data from a sound sample by removing additional distortion. , 0, , .		0
103	Available Bandwidth Estimation in Smart VPN Bonding Technique based on a NARX Neural Network. , 2017, , .		0
104	Acceleration of data handling in neural networks by using cascade classification model. , 2019, , .		0
105	Mining of High-Utility Patterns in Big IoT Databases. Lecture Notes in Computer Science, 2021, , 205-216.	1.0	0
106	A Graphic CNN-LSTM Model for Stock Price Predication. Lecture Notes in Computer Science, 2021, , 258-268.	1.0	0
107	Extraction and Analysis of Voice Samples Based on Short Audio Files. Communications in Computer and Information Science, 2017, , 422-431.	0.4	0
108	Parallel Processing of Computed Tomography Images. Advances in Intelligent Systems and Computing, 2019, , 95-104.	0.5	0

#	ARTICLE	IF	CITATIONS
109	Accident Prevention System During Immersion in Virtual Reality. Lecture Notes in Computer Science, 2019, , 565-573.	1.0	0
110	The impact of parallel programming on faster image filtering. , 0, , .		0