

# Alaa Tharwat

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

4,339  
citations

218381

26  
h-index

174990

52  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification assessment methods. Applied Computing and Informatics, 2021, 17, 168-192.	3.7	984
2	Linear discriminant analysis: A detailed tutorial. AI Communications, 2017, 30, 169-190.	0.8	576
3	Linear vs. quadratic discriminant analysis classifier: a tutorial. International Journal of Applied Pattern Recognition, 2016, 3, 145.	0.3	206
4	Bezier Curve Based Path Planning in a Dynamic Field using Modified Genetic Algorithm. Journal of Computational Science, 2018, 25, 339-350.	1.5	185
5	Chaotic dragonfly algorithm: an improved metaheuristic algorithm for feature selection. Applied Intelligence, 2019, 49, 188-205.	3.3	176
6	Intelligent Bezier curve-based path planning model using Chaotic Particle Swarm Optimization algorithm. Cluster Computing, 2019, 22, 4745-4766.	3.5	161
7	Principal component analysis - a tutorial. International Journal of Applied Pattern Recognition, 2016, 3, 197.	0.3	138
8	Optimizing K-coverage of mobile WSNs. Expert Systems With Applications, 2018, 92, 142-153.	4.4	137
9	A BA-based algorithm for parameter optimization of Support Vector Machine. Pattern Recognition Letters, 2017, 93, 13-22.	2.6	124
10	K-Coverage Model Based on Genetic Algorithm to Extend WSN Lifetime. , 2017, 1, 1-4.		117
11	Parameter investigation of support vector machine classifier with kernel functions. Knowledge and Information Systems, 2019, 61, 1269-1302.	2.1	116
12	Biometric cattle identification approach based on Weber's Local Descriptor and AdaBoost classifier. Computers and Electronics in Agriculture, 2016, 122, 55-66.	3.7	103
13	Recognizing human activity in mobile crowdsensing environment using optimized k-NN algorithm. Expert Systems With Applications, 2018, 107, 32-44.	4.4	98
14	Chaotic antlion algorithm for parameter optimization of support vector machine. Applied Intelligence, 2018, 48, 670-686.	3.3	90
15	Moth-flame optimization for training Multi-Layer Perceptrons. , 2015, , .		74
16	Classification of toxicity effects of biotransformed hepatic drugs using whale optimized support vector machines. Journal of Biomedical Informatics, 2017, 68, 132-149.	2.5	74
17	Independent component analysis: An introduction. Applied Computing and Informatics, 2021, 17, 222-249.	3.7	71
18	MOGOA algorithm for constrained and unconstrained multi-objective optimization problems. Applied Intelligence, 2018, 48, 2268-2283.	3.3	70

#	ARTICLE	IF	CITATIONS
19	Parameters optimization of support vector machines for imbalanced data using social ski driver algorithm. <i>Neural Computing and Applications</i> , 2020, 32, 6925-6938.	3.2	67
20	SIFT-Based Arabic Sign Language Recognition System. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 359-370.	0.5	65
21	A New Multi-layer Perceptrons Trainer Based on Ant Lion Optimization Algorithm. , 2015, , .		47
22	Fruit-Based Tomato Grading System Using Features Fusion and Support Vector Machine. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 401-410.	0.5	45
23	A conceptual and practical comparison of PSO-style optimization algorithms. <i>Expert Systems With Applications</i> , 2021, 167, 114430.	4.4	45
24	Optimized superpixel and AdaBoost classifier for human thermal face recognition. <i>Signal, Image and Video Processing</i> , 2018, 12, 711-719.	1.7	41
25	A biometric-based model for fish species classification. <i>Fisheries Research</i> , 2018, 204, 324-336.	0.9	40
26	Quantum-Behaved Particle Swarm Optimization for Parameter Optimization of Support Vector Machine. <i>Journal of Classification</i> , 2019, 36, 576-598.	1.2	38
27	Cattle Identification Using Muzzle Print Images Based on Texture Features Approach. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 217-227.	0.5	36
28	Cattle Identification Based on Muzzle Images Using Gabor Features and SVM Classifier. <i>Communications in Computer and Information Science</i> , 2014, , 236-247.	0.4	34
29	Two biometric approaches for cattle identification based on features and classifiers fusion. <i>International Journal of Image Mining</i> , 2015, 1, 342.	0.1	31
30	One-dimensional vs. two-dimensional based features: Plant identification approach. <i>Journal of Applied Logic</i> , 2017, 24, 15-31.	1.1	27
31	Muzzle-Based Cattle Identification Using Speed up Robust Feature Approach. , 2015, , .		24
32	Parameter Optimization of Support Vector Machine Using Dragonfly Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 309-319.	0.5	24
33	A Wheelchair Control System Using Human-Machine Interaction: Single-Modal and Multimodal Approaches. <i>Journal of Intelligent Systems</i> , 2019, 28, 115-132.	1.2	22
34	Plants Identification Using Feature Fusion Technique and Bagging Classifier. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 461-471.	0.5	21
35	Towards an Automated Zebrafish-based Toxicity Test Model Using Machine Learning. <i>Procedia Computer Science</i> , 2015, 65, 643-651.	1.2	20
36	Multimodal biometric authentication algorithm using ear and finger knuckle images. , 2012, , .		19

#	ARTICLE	IF	CITATIONS
37	Plant Identification: Two Dimensional-Based Vs. One Dimensional-Based Feature Extraction Methods. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 375-385.	0.5	18
38	A Predictive Model for Toxicity Effects Assessment of Biotransformed Hepatic Drugs Using Iterative Sampling Method. <i>Scientific Reports</i> , 2016, 6, 38660.	1.6	18
39	Human Thermal Face Recognition Based on Random Linear Oracle (RLO) Ensembles. , 2015, , .		15
40	Particle Swarm Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2017, , 614-635.	0.4	15
41	Neutrosophic rule-based prediction system for toxicity effects assessment of biotransformed hepatic drugs. <i>Expert Systems With Applications</i> , 2019, 121, 142-157.	4.4	14
42	Population initialization techniques for evolutionary algorithms for single-objective constrained optimization problems: Deterministic vs. stochastic techniques. <i>Swarm and Evolutionary Computation</i> , 2021, 67, 100952.	4.5	13
43	Balancing Exploration and Exploitation: A novel active learner for imbalanced data. <i>Knowledge-Based Systems</i> , 2020, 210, 106500.	4.0	12
44	Ear Recognition Using Block-Based Principal Component Analysis and Decision Fusion. <i>Lecture Notes in Computer Science</i> , 2015, , 246-254.	1.0	11
45	Three different classifiers for facial age estimation based on K-nearest neighbor. , 2013, , .		10
46	Automated zebrafish-based toxicity test using Bat optimization and AdaBoost classifier. , 2015, , .		9
47	Face sketch recognition using local invariant features. , 2015, , .		8
48	Rough sets and social ski-driver optimization for drug toxicity analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 197, 105702.	2.6	6
49	Computational model for vitamin D deficiency using hair mineral analysis. <i>Computational Biology and Chemistry</i> , 2017, 70, 198-210.	1.1	5
50	Automated toxicity test model based on a bio-inspired technique and AdaBoost classifier. <i>Computers and Electrical Engineering</i> , 2018, 71, 346-358.	3.0	5
51	Optimizing Support Vector Machine Parameters Using Bat Optimization Algorithm. <i>Studies in Computational Intelligence</i> , 2019, , 351-374.	0.7	4
52	Face Sketch Synthesis and Recognition Based on Linear Regression Transformation and Multi-Classifer Technique. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 183-193.	0.5	4
53	Improving Enzyme Function Classification Performance Based on Score Fusion Method. <i>Lecture Notes in Computer Science</i> , 2015, , 530-542.	1.0	4
54	Automated Enzyme Function Classification Based on Pairwise Sequence Alignment Technique. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 499-510.	0.5	3

#	ARTICLE	IF	CITATIONS
55	Meta-Heuristic Algorithm Inspired by Grey Wolves for Solving Function Optimization Problems. Advances in Intelligent Systems and Computing, 2017, , 480-490.	0.5	3
56	Personal Identification Based on Mobile-Based Keystroke Dynamics. Advances in Intelligent Systems and Computing, 2019, , 457-466.	0.5	3
57	Communication in Soccer Simulation: On the Use of Wiretapping Opponent Teams. Lecture Notes in Computer Science, 2019, , 3-15.	1.0	3
58	Eavesdropping Opponent Agent Communication Using Deep Learning. Lecture Notes in Computer Science, 2017, , 205-222.	1.0	2
59	A Novel Low-Query-Budget Active Learner with Pseudo-Labels for Imbalanced Data. Mathematics, 2022, 10, 1068.	1.1	2
60	Enzyme vs. non-enzyme classification based on principal component analysis and AdaBoost classifier. , 2016, , .		1
61	A Fully-Automated Zebra Animal Identification Approach Based on SIFT Features. Advances in Intelligent Systems and Computing, 2017, , 289-297.	0.5	1
62	Combining evolutionary algorithms and case-based reasoning for learning high-quality shooting strategies in AI birds. , 2017, , .		0
63	Plant Recommender System Based on Multi-label Classification. Advances in Intelligent Systems and Computing, 2017, , 825-835.	0.5	0
64	Enzyme Function Classification. Advances in Computational Intelligence and Robotics Book Series, 2017, , 161-186.	0.4	0
65	Classification of Toxicity Effects of Biotransformed Hepatic Drugs Using Optimized Support Vector Machine. Advances in Intelligent Systems and Computing, 2018, , 161-170.	0.5	0
66	A Predictive Model for Seminal Quality Using Neutrosophic Rule-Based Classification System. Advances in Intelligent Systems and Computing, 2019, , 495-504.	0.5	0
67	Enzyme Function Classification. , 2019, , 380-405.		0