

Alaa Tharwat

List of Publications by Year in descending order

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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	A Novel Low-Query-Budget Active Learner with Pseudo-Labels for Imbalanced Data. Mathematics, 2022, 10, 1068.	1.1	2
2	Classification assessment methods. Applied Computing and Informatics, 2021, 17, 168-192.	3.7	984
3	Independent component analysis: An introduction. Applied Computing and Informatics, 2021, 17, 222-249.	3.7	71
4	A conceptual and practical comparison of PSO-style optimization algorithms. Expert Systems With Applications, 2021, 167, 114430.	4.4	45
5	Population initialization techniques for evolutionary algorithms for single-objective constrained optimization problems: Deterministic vs. stochastic techniques. Swarm and Evolutionary Computation, 2021, 67, 100952.	4.5	13
6	Parameters optimization of support vector machines for imbalanced data using social ski driver algorithm. Neural Computing and Applications, 2020, 32, 6925-6938.	3.2	67
7	Balancing Exploration and Exploitation: A novel active learner for imbalanced data. Knowledge-Based Systems, 2020, 210, 106500.	4.0	12
8	Rough sets and social ski-driver optimization for drug toxicity analysis. Computer Methods and Programs in Biomedicine, 2020, 197, 105702.	2.6	6
9	Chaotic dragonfly algorithm: an improved metaheuristic algorithm for feature selection. Applied Intelligence, 2019, 49, 188-205.	3.3	176
10	Quantum-Behaved Particle Swarm Optimization for Parameter Optimization of Support Vector Machine. Journal of Classification, 2019, 36, 576-598.	1.2	38
11	Parameter investigation of support vector machine classifier with kernel functions. Knowledge and Information Systems, 2019, 61, 1269-1302.	2.1	116
12	Personal Identification Based on Mobile-Based Keystroke Dynamics. Advances in Intelligent Systems and Computing, 2019, , 457-466.	0.5	3
13	Optimizing Support Vector Machine Parameters Using Bat Optimization Algorithm. Studies in Computational Intelligence, 2019, , 351-374.	0.7	4
14	Neutrosophic rule-based prediction system for toxicity effects assessment of biotransformed hepatic drugs. Expert Systems With Applications, 2019, 121, 142-157.	4.4	14
15	Intelligent Bézier curve-based path planning model using Chaotic Particle Swarm Optimization algorithm. Cluster Computing, 2019, 22, 4745-4766.	3.5	161
16	A Wheelchair Control System Using Human-Machine Interaction: Single-Modal and Multimodal Approaches. Journal of Intelligent Systems, 2019, 28, 115-132.	1.2	22
17	A Predictive Model for Seminal Quality Using Neutrosophic Rule-Based Classification System. Advances in Intelligent Systems and Computing, 2019, , 495-504.	0.5	0
18	Communication in Soccer Simulation: On the Use of Wiretapping Opponent Teams. Lecture Notes in Computer Science, 2019, , 3-15.	1.0	3

#	ARTICLE	IF	CITATIONS
19	Enzyme Function Classification. , 2019, , 380-405.		0
20	Recognizing human activity in mobile crowdsensing environment using optimized k -NN algorithm. Expert Systems With Applications, 2018, 107, 32-44.	4.4	98
21	A biometric-based model for fish species classification. Fisheries Research, 2018, 204, 324-336.	0.9	40
22	Optimizing K-coverage of mobile WSNs. Expert Systems With Applications, 2018, 92, 142-153.	4.4	137
23	Bezier Curve Based Path Planning in a Dynamic Field using Modified Genetic Algorithm. Journal of Computational Science, 2018, 25, 339-350.	1.5	185
24	Parameter Optimization of Support Vector Machine Using Dragonfly Algorithm. Advances in Intelligent Systems and Computing, 2018, , 309-319.	0.5	24
25	MOGOA algorithm for constrained and unconstrained multi-objective optimization problems. Applied Intelligence, 2018, 48, 2268-2283.	3.3	70
26	Optimized superpixel and AdaBoost classifier for human thermal face recognition. Signal, Image and Video Processing, 2018, 12, 711-719.	1.7	41
27	Chaotic antlion algorithm for parameter optimization of support vector machine. Applied Intelligence, 2018, 48, 670-686.	3.3	90
28	Automated toxicity test model based on a bio-inspired technique and AdaBoost classifier. Computers and Electrical Engineering, 2018, 71, 346-358.	3.0	5
29	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
30	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
31	Computational model for vitamin D deficiency using hair mineral analysis. Computational Biology and Chemistry, 2017, 70, 198-210.	1.1	5
32	Combining evolutionary algorithms and case-based reasoning for learning high-quality shooting strategies in AI birds. , 2017, , .		0
33	K-Coverage Model Based on Genetic Algorithm to Extend WSN Lifetime. , 2017, 1, 1-4.		117
34	One-dimensional vs. two-dimensional based features: Plant identification approach. Journal of Applied Logic, 2017, 24, 15-31.	1.1	27
35	Plant Recommender System Based on Multi-label Classification. Advances in Intelligent Systems and Computing, 2017, , 825-835.	0.5	0
36	A Fully-Automated Zebra Animal Identification Approach Based on SIFT Features. Advances in Intelligent Systems and Computing, 2017, , 289-297.	0.5	1

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37	Meta-Heuristic Algorithm Inspired by Grey Wolves for Solving Function Optimization Problems. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 480-490.	0.5	3
38	A BA-based algorithm for parameter optimization of Support Vector Machine. <i>Pattern Recognition Letters</i> , 2017, 93, 13-22.	2.6	124
39	Linear discriminant analysis: A detailed tutorial. <i>AI Communications</i> , 2017, 30, 169-190.	0.8	576
40	Particle Swarm Optimization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2017, , 614-635.	0.4	15
41	Eavesdropping Opponent Agent Communication Using Deep Learning. <i>Lecture Notes in Computer Science</i> , 2017, , 205-222.	1.0	2
42	Enzyme Function Classification. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2017, , 161-186.	0.4	0
43	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
44	Enzyme vs. non-enzyme classification based on principal component analysis and AdaBoost classifier. , 2016, , .		1
45	Linear vs. quadratic discriminant analysis classifier: a tutorial. <i>International Journal of Applied Pattern Recognition</i> , 2016, 3, 145.	0.3	206
46	Principal component analysis - a tutorial. <i>International Journal of Applied Pattern Recognition</i> , 2016, 3, 197.	0.3	138
47	Biometric cattle identification approach based on Weber's Local Descriptor and AdaBoost classifier. <i>Computers and Electronics in Agriculture</i> , 2016, 122, 55-66.	3.7	103
48	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
49	Plants Identification Using Feature Fusion Technique and Bagging Classifier. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 461-471.	0.5	21
50	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
51	A New Multi-layer Perceptrons Trainer Based on Ant Lion Optimization Algorithm. , 2015, , .		47
52	Face sketch recognition using local invariant features. , 2015, , .		8
53	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
54	Muzzle-Based Cattle Identification Using Speed up Robust Feature Approach. , 2015, , .		24

#	ARTICLE	IF	CITATIONS
55	Automated zebrafish-based toxicity test using Bat optimization and AdaBoost classifier. , 2015, , .		9
56	Moth-flame optimization for training Multi-Layer Perceptrons. , 2015, , .		74
57	Human Thermal Face Recognition Based on Random Linear Oracle (RLO) Ensembles. , 2015, , .		15
58	Ear Recognition Using Block-Based Principal Component Analysis and Decision Fusion. Lecture Notes in Computer Science, 2015, , 246-254.	1.0	11
59	Automated Enzyme Function Classification Based on Pairwise Sequence Alignment Technique. Advances in Intelligent Systems and Computing, 2015, , 499-510.	0.5	3
60	Towards an Automated Zebrafish-based Toxicity Test Model Using Machine Learning. Procedia Computer Science, 2015, 65, 643-651.	1.2	20
61	SIFT-Based Arabic Sign Language Recognition System. Advances in Intelligent Systems and Computing, 2015, , 359-370.	0.5	65
62	Fruit-Based Tomato Grading System Using Features Fusion and Support Vector Machine. Advances in Intelligent Systems and Computing, 2015, , 401-410.	0.5	45
63	Improving Enzyme Function Classification Performance Based on Score Fusion Method. Lecture Notes in Computer Science, 2015, , 530-542.	1.0	4
64	Cattle Identification Using Muzzle Print Images Based on Texture Features Approach. Advances in Intelligent Systems and Computing, 2014, , 217-227.	0.5	36
65	Cattle Identification Based on Muzzle Images Using Gabor Features and SVM Classifier. Communications in Computer and Information Science, 2014, , 236-247.	0.4	34
66	Three different classifiers for facial age estimation based on K-nearest neighbor. , 2013, , .		10
67	Multimodal biometric authentication algorithm using ear and finger knuckle images. , 2012, , .		19