Satyasai Jagannath Nanda

List of Publications by Year
in descending order

93 papers	1,300 citations	566801 15 h-index	395343 33 g-index
95 all docs	95 docs citations	95 times ranked	1035 citing authors

#	Article	IF	Citations
1	A survey on nature inspired metaheuristic algorithms for partitional clustering. Swarm and Evolutionary Computation, 2014, 16, 1-18.	4.5	450
2	Automatic clustering algorithm based on multi-objective Immunized PSO to classify actions of 3D human models. Engineering Applications of Artificial Intelligence, 2013, 26, 1429-1441.	4.3	63
3	A Grey Wolf Optimizer Based Automatic Clustering Algorithm for Satellite Image Segmentation. Procedia Computer Science, 2017, 115, 415-422.	1.2	60
4	Improved identification of Hammerstein plants using new CPSO and IPSO algorithms. Expert Systems With Applications, 2010, 37, 6818-6831.	4.4	52
5	Parallel social spider clustering algorithm for high dimensional datasets. Engineering Applications of Artificial Intelligence, 2016, 56, 75-90.	4.3	42
6	A Binary Social Spider Optimization algorithm for unsupervised band selection in compressed hyperspectral images. Expert Systems With Applications, 2018, 97, 336-356.	4.4	41
7	Design of computationally efficient density-based clustering algorithms. Data and Knowledge Engineering, 2015, 95, 23-38.	2.1	38
8	Distributed robust data clustering in wireless sensor networks using diffusion moth flame optimization. Engineering Applications of Artificial Intelligence, 2020, 87, 103342.	4.3	36
9	Robust nonlinear channel equalization using WNN trained by symbiotic organism search algorithm. Applied Soft Computing Journal, 2017, 57, 197-209.	4.1	35
10	A Quantum Grey Wolf Optimizer based declustering model for analysis of earthquake catalogs in an ergodic framework. Journal of Computational Science, 2019, 36, 101019.	1.5	26
11	Multi-objective whale optimization. , 2017, , .		24
12	A K-Means-Galactic Swarm Optimization-Based Clustering Algorithm with Otsu's Entropy for Brain Tumor Detection. Applied Artificial Intelligence, 2019, 33, 152-170.	2.0	22
13	A many-objective whale optimization algorithm to perform robust distributed clustering in wireless sensor network. Applied Soft Computing Journal, 2021, 110, 107650.	4.1	19
14	Cloud detection in satellite images using multi-objective social spider optimization. Applied Soft Computing Journal, 2019, 79, 203-226.	4.1	18
15	Tetra-stage cluster identification model to analyse the seismic activities of Japan, Himalaya and Taiwan. IET Signal Processing, 2018, 12, 95-103.	0.9	16
16	A tri-stage cluster identification model for accurate analysis of seismic catalogs. Nonlinear Processes in Geophysics, 2013, 20, 143-162.	0.6	15
17	Shared Nearest Neighborhood Intensity Based Declustering Model for Analysis of Spatio-Temporal Seismicity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1619-1627.	2.3	15
18	Improved Identification of Nonlinear MIMO Plants using New Hybrid FLANN-AIS Model. , 2009, , .		14

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19	Distributed clustering in peer to peer networks using multi-objective whale optimization. Applied Soft Computing Journal, 2020, 96, 106625.	4.1	14
20	A low complexity hardware architecture of K-means algorithm for real-time satellite image segmentation. Multimedia Tools and Applications, 2019, 78, 11949-11981.	2.6	13
21	Vector–angle penalised NSGA–II to solve many–objective optimisation problems. Electronics Letters, 2019, 55, 198-200.	0.5	12
22	Solving time varying many-objective TSP with dynamic θ-NSGA-III algorithm. Applied Soft Computing Journal, 2022, 118, 108493.	4.1	12
23	Development of immunized pso algorithm and its application to hammerstein model identification. , 2009, , .		10
24	Designing of a Risk Assessment Model for Issuing Credit Card Using Parallel Social Spider Algorithm. Applied Artificial Intelligence, 2019, 33, 191-207.	2.0	10
25	A high speed roller dung beetles clustering algorithm and its architecture for real-time image segmentation. Applied Intelligence, 2021, 51, 4682-4713.	3.3	10
26	A Variable ε -DBSCAN Algorithm for Declustering Earthquake Catalogs. Advances in Intelligent Systems and Computing, 2019, , 639-651.	0.5	10
27	Cloud detection in satellite images with classical and deep neural network approach: A review. Multimedia Tools and Applications, 2022, 81, 31847-31880.	2.6	10
28	Multi-objective Moth Flame Optimization. , 2016, , .		9
29	A FSM based approach for efficient implementation of K-means algorithm. , 2016, , .		9
30	Declustering of an earthquake catalog based on ergodicity using parallel Grey Wolf Optimization. , 2017, , .		9
31	A Social Spider Optimization Algorithm with Chaotic Initialization for Robust Clustering. Procedia Computer Science, 2018, 143, 450-457.	1.2	8
32	Design of Supervised and Blind Channel Equalizer Based on Moth-Flame Optimization. Journal of the Institution of Engineers (India): Series B, 2019, 100, 105-115.	1.3	8
33	VLSI implementation of anti–notch lattice structure for identification of exon regions in Eukaryotic genes. IET Computers and Digital Techniques, 2020, 14, 217-229.	0.9	8
34	Seismicity analysis using space-time density peak clustering method. Pattern Analysis and Applications, 2021, 24, 181-201.	3.1	8
35	A parallel chaotic sailfish optimization algorithm for estimation of DOA in wireless sensor array. Physical Communication, 2022, 51, 101536.	1.2	8
36	A Binary NSGA-III for Unsupervised Band Selection in Hyper-spectral Satellite Images. , 2019, , .		7

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37	A multi-objective chimp optimization algorithm for seismicity de-clustering. Applied Soft Computing Journal, 2022, 121, 108742.	4.1	7
38	New GOPSO and its application to robust identification. , 2011, , .		6
39	Automatic clustering using MOCLONAL for classifying actions of 3D human models. , 2012, , .		6
40	Denoising hyperspectral images using Hilbert vibration decomposition with cluster validation. IET Image Processing, 2018, 12, 1736-1745.	1.4	6
41	Earthquake pattern analysis using subsequence time series clustering. Pattern Analysis and Applications, 2023, 26, 19-37.	3.1	6
42	Development of Novel Digital Equalizers for Noisy Nonlinear Channel using Artificial Immune System. , 2008, , .		5
43	Improved identification of nonlinear dynamic systems using Artificial Immune System. , 2008, , .		5
44	A WNN-CSO model for accurate forecasting of chaotic and nonlinear time series. , 2015, , .		5
45	Positioning LED Panel for Uniform Illuminance in Indoor VLC System Using Whale Optimization. Lecture Notes in Electrical Engineering, 2018, , 131-139.	0.3	5
46	A Binary NSGA-II Model for De-clustering Seismicity of Turkey and Chile. , 2021, , .		5
47	A Hardware Architecture Based on Genetic Clustering for Color Image Segmentation. Advances in Intelligent Systems and Computing, 2019, , 863-876.	0.5	5
48	A CNN-LSTM Model Trained with Grey Wolf Optimizer for Prediction of Household Power Consumption. , 2021, , .		5
49	Improved protein structural class prediction using genetic algorithm and artificial immune system. , 2009, , .		4
50	A correlation based stochastic partitional algorithm for accurate cluster analysis. International Journal of Signal and Imaging Systems Engineering, 2013, 6, 52.	0.6	4
51	League Championship Algorithm for clustering. , 2015, , .		4
52	Hardware implementation of infinite impulse response antiâ€notch filter for exon region identification in eukaryotic genes. International Journal of Circuit Theory and Applications, 2020, 48, 2242-2256.	1.3	4
53	A Model Based on Fuzzy C-Means with Density Peak Clustering for Seismicity Analysis of Earthquake Prone Regions. Advances in Intelligent Systems and Computing, 2021, , 173-185.	0.5	4
54	Automatic Determination of K in Distributed K-Means Clustering. Procedia Computer Science, 2019, 165, 556-564.	1.2	3

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55	Dynamic clustering with binary social spider algorithm for streaming dataset. Soft Computing, 2019, 23, 10717-10737.	2.1	3
56	Solving Dynamic Many-objective TSP using NSGA-III equipped with SVR-RBF Kernel Predictor. , 2021, , .		3
57	FPGA implementation of high‐speed tunable IIR band pass notch filter for identification of hot‐spots in protein. International Journal of Circuit Theory and Applications, 2021, 49, 3748-3765.	1.3	3
58	Development of a New Optimization Algorithm Based on Artificial Immune System and Its Application. , 2008, , .		2
59	Development of a nonlinear model of unijunction transistor using artificial immune system. , 2009, , .		2
60	A new density based clustering algorithm for Binary Data sets. , 2014, , .		2
61	An Incremental RLS for Distributed Parameter Estimation of IIR Systems Present in Computing Nodes of a Wireless Sensor Network. Procedia Computer Science, 2017, 115, 699-706.	1.2	2
62	Diffusion Least Mean Square Algorithm for Identification of IIR System Present in Each Node of a Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2019, , 709-720.	0.5	2
63	Clustering Networks Based on Physarum Optimization for Seismic Catalogs Analysis. , 2019, , .		2
64	Classifying Physical Actions of Human Models using Multi-objective Clustering based on Elephant Herding Algorithm. Procedia Computer Science, 2019, 152, 84-91.	1.2	2
65	A Point Symmetry Distance Based K-Means Algorithm for Distributed Clustering in Peer to Peer Networks. , 2019, , .		2
66	Clustering Big Datasets Using Orthogonal Gray Wolf Optimizer. , 2019, , .		2
67	Many-Objective B/NSGA-III for Band Selection in Cloud Contaminated Hyper-Spectral Images. , 2019, , .		2
68	FPGA Implementation of High Speed Anti-notch Lattice filter for Exon Region Identification in Eukaryotic Genes. , 2021, , .		2
69	A Distributed Neighbourhood DBSCAN Algorithm for Effective Data Clustering in Wireless Sensor Networks. Wireless Personal Communications, 2021, 121, 2545-2568.	1.8	2
70	A Color Transformation Approach to Retrieve Cloudy Pixels in Daytime Satellite Images. Advances in Intelligent Systems and Computing, 2018, , 311-319.	0.5	2
71	Timely detection of Seismic waves in Ground motion data using Improved S-Transform. , 2020, , .		2
72	Improved framework of many‐objective evolutionary algorithm to handle cloud detection problem in satellite imagery. IET Image Processing, 2020, 14, 4795-4807.	1.4	2

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73	A Binary Multi-objective CLONAL Algorithm for Band Selection in Hyper-Spectral Images. , 2021, , .		2
74	Identification of characteristics frequency and hot-spots in protein sequence of COVID-19 disease. Biomedical Signal Processing and Control, 2022, , 103909.	3.5	2
75	2D code construction using DW code families for SAC-OCDMA systems. , 2017, , .		1
76	High Speed Implementation of Notch/Anti-notch IIR Filter on FPGA. , 2018, , .		1
77	VLSI Implementation of Tunable Band-Pass Notch IIR Filter for Localization of Hot spots in Proteins. Lecture Notes in Electrical Engineering, 2021, , 563-575.	0.3	1
78	Objective reduction in many-objective optimization with social spider algorithm for cloud detection in satellite images. Soft Computing, 2022, 26, 2935-2958.	2.1	1
79	Direction of Arrival Estimation in Automotive Radar with Sailfish Optimization Algorithm. , 2021, , .		1
80	A clustering model based on colliding bodies optimization for analysis of seismic catalog. , 2015, , .		0
81	Cluster analysis of evolving data streams using centroid initialization methods. , 2016, , .		0
82	Optimal Path Determination in a Survivable Virtual Topology of an Optical Network Using Ant Colony Optimization. Advances in Intelligent Systems and Computing, 2017, , 48-58.	0.5	0
83	Design of low complexity Universal Bi-quadratic Filters using Current Feedback Amplifier. , 2017, , .		0
84	Shared Nearest Neighbor Based Classification of Earthquake Catalogs in Spatio-Temporal Domain. , 2018, , .		0
85	A Mask Regional Convolutional Neural Network Model for Segmenting Real Time Traffic Images. , 2018, , .		0
86	Multi-objective Clustering using Find-Fix-Finish-Exploit-Analyze (F3EA) Algorithm. , 2019, , .		0
87	Coverage Optimization of a VLC-Based Smart Room with Genetic Algorithm. Lecture Notes in Electrical Engineering, 2020, , 121-128.	0.3	0
88	Time Series Forecasting using a Polynomial Controlled S-transform. , 2020, , .		0
89	Clustering High-Dimensional Datasets Using Quantum Social Spider Optimization with DWT. Advances in Intelligent Systems and Computing, 2021, , 659-671.	0.5	0
90	Design and Optimization of EDFA-Raman Hybrid Optical Amplifier using Grey Wolf Optimizer. , 2021, , .		0

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91	Optimization of hybrid amplifier parameters for improved optical link performance. Optical and Quantum Electronics, 2021, 53, 1.	1.5	0
92	Classifying Aggressive Actions of 3D Human Models Using Correlation Based Affinity Propagation Algorithm. Advances in Intelligent Systems and Computing, 2018, , 189-198.	0.5	0
93	Robust Automatic Clustering Based on Local Density with Glowworm Swarm Optimization. , 2021, , .		0