Javier Del Ser

List of Publications by Year
in descending order

292 papers	10,279 citations	93792 39 h-index	45040 94 g-index
310 all docs	310 docs citations	310 times ranked	9523 citing authors

#	Article	IF	Citations
1	A novel approach for the detection of anomalous energy consumption patterns in industrial cyber–physical systems. Expert Systems, 2024, 41, .	2.9	4
2	A survey on extremism analysis using natural language processing: definitions, literature review, trends and challenges. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 9869-9905.	3.3	8
3	Adaptive Multifactorial Evolutionary Optimization for Multitask Reinforcement Learning. IEEE Transactions on Evolutionary Computation, 2022, 26, 233-247.	7.5	17
4	Deep Learning for Road Traffic Forecasting: Does it Make a Difference?. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6164-6188.	4.7	28
5	Fuzzy Logic in Surveillance Big Video Data Analysis. ACM Computing Surveys, 2022, 54, 1-33.	16.1	20
6	On the post-hoc explainability of deep echo state networks for time series forecasting, image and video classification. Neural Computing and Applications, 2022, 34, 10257-10277.	3.2	6
7	Performance and Explainability of Reservoir Computing Models for Industrial Prognosis. Advances in Intelligent Systems and Computing, 2022, , 24-36.	0.5	1
8	Human Short Long-Term Cognitive Memory Mechanism for Visual Monitoring in IoT-Assisted Smart Cities. IEEE Internet of Things Journal, 2022, 9, 7128-7139.	5.5	61
9	Artificial Intelligence of Things-assisted two-stream neural network for anomaly detection in surveillance Big Video Data. Future Generation Computer Systems, 2022, 129, 286-297.	4.9	67
10	Information fusion as an integrative cross-cutting enabler to achieve robust, explainable, and trustworthy medical artificial intelligence. Information Fusion, 2022, 79, 263-278.	11.7	100
11	Vessel-GAN: Angiographic reconstructions from myocardial CT perfusion with explainable generative adversarial networks. Future Generation Computer Systems, 2022, 130, 128-139.	4.9	14
12	Energy-Aware Multi-Objective Job Shop Scheduling Optimization with Metaheuristics in Manufacturing Industries: A Critical Survey, Results, and Perspectives. Applied Sciences (Switzerland), 2022, 12, 1491.	1.3	17
13	Randomization-based machine learning in renewable energy prediction problems: Critical literature review, new results and perspectives. Applied Soft Computing Journal, 2022, 118, 108526.	4.1	29
14	Data harmonisation for information fusion in digital healthcare: A state-of-the-art systematic review, meta-analysis and future research directions. Information Fusion, 2022, 82, 99-122.	11.7	62
15	NATURE- AND BIO-INSPIRED OPTIMIZATION: THE GOOD, THE BAD, THE UGLY AND THE HOPEFUL. Dyna (Spain), 2022, 97, 114-117.	0.1	1
16	Persistence in complex systems. Physics Reports, 2022, 957, 1-73.	10.3	24
17	Evolutionary Multitask Optimization: a Methodological Overview, Challenges, and Future Research Directions. Cognitive Computation, 2022, 14, 927-954.	3.6	27
18	Group'n Route: An Edge Learning-Based Clustering and Efficient Routing Scheme Leveraging Social Strength for the Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19589-19601.	4.7	9

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19	An active adaptation strategy for streaming time series classification based on elastic similarity measures. Neural Computing and Applications, 2022, 34, 13237-13252.	3.2	3
20	An Efficient and Scalable Simulation Model for Autonomous Vehicles With Economical Hardware. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1718-1732.	4.7	15
21	Deep Learning for Multigrade Brain Tumor Classification in Smart Healthcare Systems: A Prospective Survey. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 507-522.	7.2	203
22	Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. IEEE Internet of Things Journal, 2021, 8, 9634-9644.	5.5	30
23	LUNAR: Cellular automata for drifting data streams. Information Sciences, 2021, 543, 467-487.	4.0	3
24	Error control and loss functions for the deep learning inversion of borehole resistivity measurements. International Journal for Numerical Methods in Engineering, 2021, 122, 1629-1657.	1.5	26
25	Lights and shadows in Evolutionary Deep Learning: Taxonomy, critical methodological analysis, cases of study, learned lessons, recommendations and challenges. Information Fusion, 2021, 67, 161-194.	11.7	21
26	From Data to Actions in Intelligent Transportation Systems: A Prescription of Functional Requirements for Model Actionability. Sensors, 2021, 21, 1121.	2.1	23
27	Model Free Identification of Traffic Conditions Using Unmanned Aerial Vehicles and Deep Learning. Journal of Big Data Analytics in Transportation, 2021, 3, 1-13.	1.4	10
28	Computational Intelligence in the hospitality industry: A systematic literature review and a prospect of challenges. Applied Soft Computing Journal, 2021, 102, 107082.	4.1	23
29	Random Vector Functional Link Networks for Road Traffic Forecasting: Performance Comparison and Stability Analysis. , 2021, , .		1
30	Multi-task learning with Multi-view Weighted Fusion Attention for artery-specific calcification analysis. Information Fusion, 2021, 71, 64-76.	11.7	26
31	Collaborative Exploration and Reinforcement Learning between Heterogeneously Skilled Agents in Environments with Sparse Rewards. , 2021, , .		5
32	Deep Learning for Safe Autonomous Driving: Current Challenges and Future Directions. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4316-4336.	4.7	170
33	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. Swarm and Evolutionary Computation, 2021, 64, 100888.	4.5	154
34	Unsupervised Anomaly Detection in Stream Data with Online Evolving Spiking Neural Networks. Neural Networks, 2021, 139, 118-139.	3.3	37
35	Bio-inspired computation for big data fusion, storage, processing, learning and visualization: state of the art and future directions. Neural Computing and Applications, 2021, , 1-31.	3.2	14
36	AT-MFCGA: An Adaptive Transfer-guided Multifactorial Cellular Genetic Algorithm for Evolutionary Multitasking. Information Sciences, 2021, 570, 577-598.	4.0	25

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37	CURIE: a cellular automaton for concept drift detection. Data Mining and Knowledge Discovery, 2021, 35, 2655-2678.	2.4	4
38	Adaptive Dendritic Cell-Deep Learning Approach for Industrial Prognosis Under Changing Conditions. IEEE Transactions on Industrial Informatics, 2021, 17, 7760-7770.	7.2	8
39	DeepSmoke: Deep learning model for smoke detection and segmentation in outdoor environments. Expert Systems With Applications, 2021, 182, 115125.	4.4	66
40	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. Swarm and Evolutionary Computation, 2021, 67, 100973.	4.5	73
41	Innovation Policies and Big Data: Opportunities and Challenges. Emerging Communication: Studies in New Technologies and Practices in Communication, 2021, , .	0.4	1
42	Change Detection and Adaptation Strategies for Long-Term Estimation of Pedestrian Flows. , 2021, , .		2
43	Soft Sensing Methods for the Generation of Plausible Traffic Data in Sensor-less Locations. , 2021, , .		1
44	A Novel Formulation for the Energy Storage Scheduling Problem in Solar Self-consumption Systems. Advances in Intelligent Systems and Computing, 2021, , 67-78.	0.5	0
45	More is not Always Better: Insights from a Massive Comparison of Meta-heuristic Algorithms over Real-Parameter Optimization Problems. , 2021, , .		3
46	MO-MFCGA: Multiobjective Multifactorial Cellular Genetic Algorithm for Evolutionary Multitasking. , 2021, , .		1
47	Ensemble Learning for Seated People Counting using WiFi Signals: Performance Study and Transferability Assessment. , 2021, , .		5
48	Online heart monitoring systems on the internet of health things environments: A survey, a reference model and an outlook. Information Fusion, 2020, 53, 222-239.	11.7	97
49	Bioinspired Computational Intelligence and Transportation Systems: A Long Road Ahead. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 466-495.	4.7	38
50	Spiking Neural Networks and online learning: An overview and perspectives. Neural Networks, 2020, 121, 88-100.	3.3	136
51	Intelligent Embedded Vision for Summarization of Multiview Videos in IIoT. IEEE Transactions on Industrial Informatics, 2020, 16, 2592-2602.	7.2	60
52	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
53	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. Information Fusion, 2020, 58, 82-115.	11.7	3,332
54	Exploiting the stimuli encoding scheme of evolving Spiking Neural Networks for stream learning. Neural Networks, 2020, 123, 118-133.	3.3	5

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55	Community detection in networks using bio-inspired optimization: Latest developments, new results and perspectives with a selection of recent meta-heuristics. Applied Soft Computing Journal, 2020, 87, 106010.	4.1	48
56	Multifactorial Cellular Genetic Algorithm (MFCGA): Algorithmic Design, Performance Comparison and Genetic Transferability Analysis. , 2020, , .		9
57	A critical literature survey and prospects on tampering and anomaly detection in image data. Applied Soft Computing Journal, 2020, 97, 106727.	4.1	15
58	A practical tutorial on bagging and boosting based ensembles for machine learning: Algorithms, software tools, performance study, practical perspectives and opportunities. Information Fusion, 2020, 64, 205-237.	11.7	223
59	Plausible Counterfactuals: Auditing Deep Learning Classifiers with Realistic Adversarial Examples. , 2020, , .		6
60	New Perspectives on the Use of Online Learning for Congestion Level Prediction over Traffic Data. , 2020, , .		4
61	Bat Algorithm Method for Automatic Determination of Color and Contrast of Modified Digital Images. , 2020, , .		0
62	A robust cyberattack detection approach using optimal features of SCADA power systems in smart grids. Applied Soft Computing Journal, 2020, 96, 106658.	4.1	40
63	Data-Driven Optimization for Transportation Logistics and Smart Mobility Applications [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 6-9.	2.6	6
64	Swarm Intelligence for Automatic Color and Contrast Retrieval of Digital Images of Paintings. , 2020, , .		0
65	PADL: A Modeling and Deployment Language for Advanced Analytical Services. Sensors, 2020, 20, 6712.	2.1	6
66	Vision-based personalized Wireless Capsule Endoscopy for smart healthcare: Taxonomy, literature review, opportunities and challenges. Future Generation Computer Systems, 2020, 113, 266-280.	4.9	30
67	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. Cognitive Computation, 2020, 12, 897-939.	3.6	125
68	Stream Learning in Energy IoT Systems: A Case Study in Combined Cycle Power Plants. Energies, 2020, 13, 740.	1.6	8
69	Is the Vehicle Routing Problem Dead? An Overview Through Bioinspired Perspective and a Prospect of Opportunities. Springer Tracts in Nature-inspired Computing, 2020, , 57-84.	1.2	16
70	On the design of hybrid bio€inspired meta€heuristics for complex multiattribute vehicle routing problems. Expert Systems, 2020, 37, e12528.	2.9	4
71	Taming the Latency in Multi-User VR 360Â°: A QoE-Aware Deep Learning-Aided Multicast Framework. IEEE Transactions on Communications, 2020, 68, 2491-2508.	4.9	68
72	Evolutionary LSTM-FCN networks for pattern classification in industrial processes. Swarm and Evolutionary Computation, 2020, 54, 100650.	4.5	24

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73	A deep learning approach to the inversion of borehole resistivity measurements. Computational Geosciences, 2020, 24, 971-994.	1.2	38
74	COEBA: A Coevolutionary Bat Algorithm for Discrete Evolutionary Multitasking. Lecture Notes in Computer Science, 2020, , 244-256.	1.0	5
75	Parametric Learning of Associative Functional Networks Through a Modified Memetic Self-adaptive Firefly Algorithm. Lecture Notes in Computer Science, 2020, , 566-579.	1.0	1
76	Data Augmentation for Industrial Prognosis Using Generative Adversarial Networks. Lecture Notes in Computer Science, 2020, , 113-122.	1.0	3
77	Traveling salesman problem: a perspective review of recent research and new results with bio-inspired metaheuristics. , 2020, , 135-164.		30
78	Robust image classification against adversarial attacks using elastic similarity measures between edge count sequences. Neural Networks, 2020, 128, 61-72.	3.3	12
79	Deep Echo State Networks for Short-Term Traffic Forecasting: Performance Comparison and Statistical Assessment. , 2020, , .		9
80	dMFEA-II. , 2020, , .		3
81	A Novel Metaheuristic Approach for Loss Reduction and Voltage Profile Improvement in Power Distribution Networks Based on Simultaneous Placement and Sizing of Distributed Generators and Shunt Capacitor Banks. Lecture Notes in Computer Science, 2020, , 64-76.	1.0	0
82	Data-driven Predictive Modeling of Traffic and Air Flow for the Improved Efficiency of Tunnel Ventilation Systems. , 2020, , .		0
83	Distributed Coordination of Heterogeneous Robotic Swarms Using Stochastic Diffusion Search. Lecture Notes in Computer Science, 2020, , 79-91.	1.0	0
84	Visualization of Numerical Association Rules by Hill Slopes. Lecture Notes in Computer Science, 2020, , 101-111.	1.0	1
85	An Intelligent Procedure for the Methodology of Energy Consumption in Industrial Environments. Lecture Notes in Computer Science, 2020, , 92-103.	1.0	0
86	PADL: a Language for the Operationalization of Distributed Analytical Pipelines over Edge/Fog Computing Environments. , 2020, , .		4
87	Dilated LSTM Networks for Short-Term Traffic Forecasting using Network-Wide Vehicle Trajectory Data. , 2020, , .		8
88	Transfer Learning and Online Learning for Traffic Forecasting under Different Data Availability Conditions: Alternatives and Pitfalls. , 2020, , .		7
89	Optimal design of Microgrid's network topology and location of the distributed renewable energy resources using the Harmony Search algorithm. Soft Computing, 2019, 23, 6495-6510.	2.1	17
90	Weighted strategies to guide a multi-objective evolutionary algorithm for multi-UAV mission planning. Swarm and Evolutionary Computation, 2019, 44, 480-495.	4.5	69

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91	Return, Diversification and Risk in Cryptocurrency Portfolios using Deep Recurrent Neural Networks and Multi-Objective Evolutionary Algorithms. , 2019, , .		4
92	Cuckoo Search Algorithm for Border Reconstruction of Medical Images with Rational Curves. Lecture Notes in Computer Science, 2019, , 320-330.	1.0	5
93	Combining bio-inspired meta-heuristics and novelty search for community detection over evolving graph streams. , 2019, , .		4
94	Discovering dependencies among mined association rules with population-based metaheuristics. , 2019, , .		5
95	Computing rational border curves of melanoma and other skin lesions from medical images with bat algorithm. , 2019, , .		2
96	Hybridizing differential evolution and novelty search for multimodal optimization problems. , 2019, , .		4
97	jMetalPy: A Python framework for multi-objective optimization with metaheuristics. Swarm and Evolutionary Computation, 2019, 51, 100598.	4.5	143
98	Cooperative game concepts in solving global optimization. , 2019, , .		1
99	Nature-inspired metaheuristics for optimizing information dissemination in vehicular networks. , 2019, , .		2
100	Hybrid Modified Firefly Algorithm for Border Detection of Skin Lesions in Medical Imaging. , 2019, , .		8
101	Using Adaptive Novelty Search in Differential Evolution. Communications in Computer and Information Science, 2019, , 267-275.	0.4	0
102	Dynamic Partitioning of Evolving Graph Streams Using Nature-Inspired Heuristics. Lecture Notes in Computer Science, 2019, , 367-380.	1.0	1
103	Bat Algorithm for Kernel Computation in Fractal Image Reconstruction. Lecture Notes in Computer Science, 2019, , 381-394.	1.0	1
104	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
105	Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. Applied Soft Computing Journal, 2019, 79, 30-45.	4.1	13
106	Trophallaxis, Low-Power Vision Sensors and Multi-objective Heuristics for 3D Scene Reconstruction Using Swarm Robotics. Lecture Notes in Computer Science, 2019, , 599-615.	1.0	2
107	Analyze, Sense, Preprocess, Predict, Implement, and Deploy (ASPPID): An incremental methodology based on data analytics for cost-efficiently monitoring the industry 4.0. Engineering Applications of Artificial Intelligence, 2019, 82, 30-43.	4.3	13
108	Adaptive long-term traffic state estimation with evolving spiking neural networks. Transportation Research Part C: Emerging Technologies, 2019, 101, 126-144.	3.9	57

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109	A Question of Trust: Statistical Characterization of Long-Term Traffic Estimations for their Improved Actionability. , 2019, , .		2
110	ECG-based Random Forest Classifier for Cardiac Arrest Rhythms. , 2019, 2019, 1504-1508.		7
111	Road Traffic Forecasting using Stacking Ensembles of Echo State Networks. , 2019, , .		2
112	Deep Recurrent Neural Networks and Optimization Meta-Heuristics for Green Urban Route Planning with Dynamic Traffic Estimates. , 2019, , .		3
113	Introduction to the Special Issue on Online Learning for Big-Data Driven Transportation and Mobility. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4621-4623.	4.7	6
114	What Lies Beneath: A Note on the Explainability of Black-box Machine Learning Models for Road Traffic Forecasting. , 2019, , .		12
115	ECG-based pulse detection during cardiac arrest using random forest classifier. Medical and Biological Engineering and Computing, 2019, 57, 453-462.	1.6	28
116	On-line Elastic Similarity Measures for time series. Pattern Recognition, 2019, 88, 506-517.	5.1	15
117	Activity Recognition Using Temporal Optical Flow Convolutional Features and Multilayer LSTM. IEEE Transactions on Industrial Electronics, 2019, 66, 9692-9702.	5.2	127
118	Optimal Microgrid Topology Design and Siting of Distributed Generation Sources Using a Multi-Objective Substrate Layer Coral Reefs Optimization Algorithm. Sustainability, 2019, 11, 169.	1.6	17
119	Data fusion and machine learning for industrial prognosis: Trends and perspectives towards Industry 4.0. Information Fusion, 2019, 50, 92-111.	11.7	373
120	Novelty search for global optimization. Applied Mathematics and Computation, 2019, 347, 865-881.	1.4	37
121	A Discrete and Improved Bat Algorithm for solving a medical goods distribution problem with pharmacological waste collection. Swarm and Evolutionary Computation, 2019, 44, 273-286.	4.5	113
122	Device-Free People Counting in IoT Environments: New Insights, Results, and Open Challenges. IEEE Internet of Things Journal, 2018, 5, 4396-4408.	5.5	39
123	On the imputation of missing data for road traffic forecasting: New insights and novel techniques. Transportation Research Part C: Emerging Technologies, 2018, 90, 18-33.	3.9	79
124	Road Traffic Forecasting: Recent Advances and New Challenges. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 93-109.	2.6	235
125	Environmental Perception for Intelligent Vehicles. , 2018, , 23-101.		6
126	Positioning and Digital Maps. , 2018, , 141-174.		2

#	ARTICLE	IF	CITATIONS
127	Big Data in Road Transport and Mobility Research. , 2018, , 175-205.		6
128	A heuristic approach to the multicriteria design of IaaS cloud infrastructures for Big Data applications. Expert Systems, 2018, 35, e12259.	2.9	8
129	Cost-efficient deployment of multi-hop wireless networks over disaster areas using multi-objective meta-heuristics. Neurocomputing, 2018, 271, 18-27.	3.5	5
130	Wind Power Production Forecasting Using Ant Colony Optimization and Extreme Learning Machines. Studies in Computational Intelligence, 2018, , 175-184.	0.7	3
131	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. Studies in Computational Intelligence, 2018, , 69-89.	0.7	12
132	DRED: An evolutionary diversity generation method for concept drift adaptation in online learning environments. Applied Soft Computing Journal, 2018, 68, 693-709.	4.1	20
133	Differential Evolution for Association Rule Mining Using Categorical and Numerical Attributes. Lecture Notes in Computer Science, 2018, , 79-88.	1.0	13
134	Bat Algorithm Swarm Robotics Approach for Dual Non-cooperative Search with Self-centered Mode. Lecture Notes in Computer Science, 2018, , 201-209.	1.0	5
135	Community Detection in Weighted Directed Networks Using Nature-Inspired Heuristics. Lecture Notes in Computer Science, 2018, , 325-335.	1.0	2
136	Multi-Objective Optimization of Bike Routes for Last-Mile Package Delivery with Drop-Offs. , 2018, , .		5
137	Concept Tracking and Adaptation for Drifting Data Streams under Extreme Verification Latency. Studies in Computational Intelligence, 2018, , 11-25.	0.7	1
138	Adversarial Sample Crafting for Time Series Classification with Elastic Similarity Measures. Studies in Computational Intelligence, 2018, , 26-39.	0.7	11
139	Road Traffic Forecasting Using NeuCube and Dynamic Evolving Spiking NeuralÂNetworks. Studies in Computational Intelligence, 2018, , 192-203.	0.7	2
140	Automatic Fitting of Feature Points forÂBorder Detection of Skin Lesions inÂMedical Images with Bat Algorithm. Studies in Computational Intelligence, 2018, , 357-368.	0.7	7
141	Multi-objective Metaheuristics for a Flexible Ligand-Macromolecule Docking Problem in Computational Biology. Studies in Computational Intelligence, 2018, , 369-379.	0.7	0
142	Decision Making in Industry 4.0 Scenarios Supported by Imbalanced DataÂClassification. Studies in Computational Intelligence, 2018, , 121-134.	0.7	1
143	Drift Detection over Non-stationary Data Streams Using Evolving Spiking NeuralÂNetworks. Studies in Computational Intelligence, 2018, , 82-94.	0.7	6
144	Big Data for transportation and mobility: recent advances, trends and challenges. IET Intelligent Transport Systems, 2018, 12, 742-755.	1.7	93

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145	Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. Lecture Notes in Computer Science, 2018, , 298-310.	1.0	5
146	Multi-objective Design of Time-Constrained Bike Routes Using Bio-inspired Meta-heuristics. Lecture Notes in Computer Science, 2018, , 197-210.	1.0	6
147	A Bio-inspired Approach for Collaborative Exploration with Mobile Battery Recharging in Swarm Robotics. Lecture Notes in Computer Science, 2018, , 75-87.	1.0	8
148	A discrete water cycle algorithm for solving the symmetric and asymmetric traveling salesman problem. Applied Soft Computing Journal, 2018, 71, 277-290.	4.1	89
149	Let nature decide its nature: On the design of collaborative hyperheuristics for decentralized ephemeral environments. Future Generation Computer Systems, 2018, 88, 792-805.	4.9	4
150	Evolving Spiking Neural Networks for online learning over drifting data streams. Neural Networks, 2018, 108, 1-19.	3.3	60
151	Using Novelty Search in Differential Evolution. Communications in Computer and Information Science, 2018, , 534-542.	0.4	4
152	Interplay of Two Bat Algorithm Robotic Swarms in Non-cooperative Target PointÂSearch. Communications in Computer and Information Science, 2018, , 543-550.	0.4	1
153	Task Classification Using Topological Graph Features for Functional M/EEG Brain Connectomics. Lecture Notes in Computer Science, 2018, , 21-32.	1.0	0
154	A Study of the Predictive Earliness ofÂTraffic Flow Characterization for Software Defined Networking. Studies in Computational Intelligence, 2018, , 393-403.	0.7	0
155	A Novel Grouping Harmony Search Algorithm for Clustering Problems. Advances in Intelligent Systems and Computing, 2017, , 78-90.	0.5	0
156	A novel BRAM content accessing and processing method based on FPGA configuration bitstream. Microprocessors and Microsystems, 2017, 49, 64-76.	1.8	4
157	On the interplay between scheduling interval and beamwidth selection for low-latency and reliable V2V mmWave communications. , 2017, , .		8
158	Nature-inspired approaches for distance metric learning in multivariate time series classification. , 2017, , .		1
159	Multi-objective heuristics applied to robot task planning for inspection plants. , 2017, , .		1
160	A local search method for graph clustering heuristics based on partitional Distribution learning. , 2017, , .		0
161	Nature-inspired heuristics for the multiple-vehicle selective pickup and delivery problem under maximum profit and incentive fairness criteria. , 2017, , .		6
162	A novel Fireworks Algorithm with wind inertia dynamics and its application to traffic forecasting. , 2017, , .		3

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163	Detection of non-technical losses in smart meter data based on load curve profiling and time series analysis. Energy, 2017, 137, 118-128.	4.5	28
164	Comparative study of pheromone control heuristics in ACO algorithms for solving RCPSP problems. Applied Soft Computing Journal, 2017, 60, 241-255.	4.1	28
165	Millimeter-Wave V2V Communications: Distributed Association and Beam Alignment. IEEE Journal on Selected Areas in Communications, 2017, 35, 2148-2162.	9.7	130
166	A simulation-based quantitative analysis on the topological heritability of Dandelion-encoded meta-heuristics for tree optimization problems. Soft Computing, 2017, 21, 4939-4952.	2.1	1
167	Hybridizing Cartesian Genetic Programming and Harmony Search for adaptive feature construction in supervised learning problems. Applied Soft Computing Journal, 2017, 52, 760-770.	4.1	12
168	On-Line Dynamic Time Warping for Streaming Time Series. Lecture Notes in Computer Science, 2017, , 591-605.	1.0	12
169	Beyond WYSIWYG: Sharing contextual sensing data through mmWave V2V communications. , 2017, , .		13
170	A meta-heuristic learning approach for the non-intrusive detection of impersonation attacks in social networks. International Journal of Bio-Inspired Computation, 2017, 10, 109.	0.6	3
171	Solving strategy board games using a CSP-based ACO approach. International Journal of Bio-Inspired Computation, 2017, 10, 136.	0.6	1
172	Underwater Robot Task Planning Using Multi-Objective Meta-Heuristics. Sensors, 2017, 17, 762.	2.1	17
173	Joint Feature Selection and Parameter Tuning for Short-Term Traffic Flow Forecasting Based on Heuristically Optimized Multi-layer Neural Networks. Advances in Intelligent Systems and Computing, 2017, , 91-100.	0.5	10
174	Optimal Phase Swapping in Low Voltage Distribution Networks Based on Smart Meter Data and Optimization Heuristics. Advances in Intelligent Systems and Computing, 2017, , 283-293.	0.5	2
175	On the Application of Bio-inspired Heuristics for Network Routing with Multiple QoS Constraints. Studies in Computational Intelligence, 2017, , 195-204.	0.7	0
176	KETpic-Matlab Toolbox for LaTeX High-Quality Graphical Artwork in Educational Materials on BÃ©zier Curve Algorithms at a Master Level. Lecture Notes in Computer Science, 2017, , 301-316.	1.0	0
177	Solving Strategy Board Games using a CSP-based ACO Approach. International Journal of Bio-Inspired Computation, 2017, 10, 1.	0.6	0
178	A Grouping Harmony Search Algorithm for Assigning Resources to Users in WCDMA Mobile Networks. Advances in Intelligent Systems and Computing, 2017, , 190-199.	0.5	1
179	On the Creation of Diverse Ensembles for Nonstationary Environments Using Bio-inspired Heuristics. Advances in Intelligent Systems and Computing, 2017, , 67-77.	0.5	3
180	Wireless Network Optimization for Massive V2I Data Collection Using Multiobjective Harmony Search Heuristics. Advances in Intelligent Systems and Computing, 2017, , 200-209.	0.5	1

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181	An Analysis of Coalition-Competition Pricing Strategies for Multi-operator Mobile Traffic Offloading Using Bi-objective Heuristics. Advances in Intelligent Systems and Computing, 2017, , 157-167.	0.5	0
182	Cost-Efficient Selective Network Caching in Large-Area Vehicular Networks Using Multi-objective Heuristics. Advances in Intelligent Systems and Computing, 2017, , 168-178.	0.5	0
183	A Meta-heuristic Learning Approach for the Non-Intrusive Detection of Impersonation Attacks in Social Networks. International Journal of Bio-Inspired Computation, 2017, 10, 1.	0.6	0
184	A novel machine learning approach to the detection of identity theft in social networks based on emulated attack instances and support vector machines. Concurrency Computation Practice and Experience, 2016, 28, 1385-1395.	1.4	10
185	Community detection in graphs based on surprise maximization using firefly heuristics. , 2016, , .		9
186	A novel adaptive density-based ACO algorithm with minimal encoding redundancy for clustering problems. , 2016, , .		4
187	Joint Topology Optimization, Power Control and Spectrum Allocation for Intra-Vehicular Multi-hop Sensor Networks Using Dandelion-Encoded Heuristics. Lecture Notes in Computer Science, 2016, , 235-250.	1.0	2
188	A novel Grouping Coral Reefs Optimization algorithm for optimal mobile network deployment problems under electromagnetic pollution and capacity control criteria. Expert Systems With Applications, 2016, 55, 388-402.	4.4	10
189	The role of local urban traffic and meteorological conditions in air pollution: A data-based case study in Madrid, Spain. Atmospheric Environment, 2016, 145, 424-438.	1.9	67
190	A feature selection method for author identification in interactive communications based on supervised learning and language typicality. Engineering Applications of Artificial Intelligence, 2016, 56, 175-184.	4.3	12
191	Understanding daily mobility patterns in urban road networks using traffic flow analytics. , 2016, , .		17
192	A novel Coral Reefs Optimization algorithm with substrate layers for optimal battery scheduling optimization in micro-grids. Soft Computing, 2016, 20, 4287-4300.	2.1	39
193	Identifying recommendation opportunities for computer€supported collaborative environments. Expert Systems, 2016, 33, 463-479.	2.9	3
194	Synchronization of faulty processors in coarse-grained TMR protected partially reconfigurable FPGA designs. Reliability Engineering and System Safety, 2016, 151, 1-9.	5.1	21
195	A Harmony Search Approach for the Selective Pick-Up and Delivery Problem with Delayed Drop-Off. Advances in Intelligent Systems and Computing, 2016, , 121-131.	0.5	8
196	Cognitive workload classification using eye-tracking and EEG data. , 2016, , .		17
197	Intelligent SPARQL Endpoints: Optimizing Execution Performance by Automatic Query Relaxation and Queue Scheduling. Lecture Notes in Computer Science, 2016, , 3-17.	1.0	0
198	On the application of multi-objective harmony search heuristics to the predictive deployment of firefighting aircrafts: a realistic case study. International Journal of Bio-Inspired Computation, 2015, 7, 270.	0.6	14

#	Article	IF	Citations
199	On the heritability of dandelion-encoded harmony search heuristics for tree optimization problems. , 2015, , .		2
200	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. Energies, 2015, 8, 9211-9265.	1.6	195
201	On a Machine Learning Approach for the Detection of Impersonation Attacks in Social Networks. Studies in Computational Intelligence, 2015, , 259-268.	0.7	3
202	One-year-ahead energy demand estimation from macroeconomic variables using computational intelligence algorithms. Energy Conversion and Management, 2015, 99, 62-71.	4.4	25
203	A random-key encoded harmony search approach for energy-efficient production scheduling with shared resources. Engineering Optimization, 2015, 47, 1481-1496.	1.5	24
204	On the Applicability of Ant Colony Optimization to Non-Intrusive Load Monitoring in Smart Grids. Lecture Notes in Computer Science, 2015, , 312-321.	1.0	4
205	A Coral Reefs Optimization algorithm with Harmony Search operators for accurate wind speed prediction. Renewable Energy, 2015, 75, 93-101.	4.3	69
206	An Island Grouping Genetic Algorithm for Fuzzy Partitioning Problems. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	9
207	The Coral Reefs Optimization Algorithm: A Novel Metaheuristic for Efficiently Solving Optimization Problems. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	136
208	Compact and Fast Fault Injection System for Robustness Measurements on SRAM-Based FPGAs. IEEE Transactions on Industrial Electronics, 2014, 61, 2493-2503.	5.2	20
209	Novel hybrid heuristics for an extension of the dynamic relay deployment problem over disaster areas. Top, 2014, 22, 997-1016.	1.1	4
210	A novel range-free localization algorithm to turn connectivity traces and motion data into localization information. Ad Hoc Networks, 2014, 20, 36-52.	3.4	3
211	A novel multi-objective algorithm for the optimal placement of wind turbines with cost and yield production criteria. , 2014, , .		1
212	A Coral Reefs Optimization algorithm for optimal mobile network deployment with electromagnetic pollution control criterion. Applied Soft Computing Journal, 2014, 24, 239-248.	4.1	27
213	Range-free localization algorithm based on connectivity and motion. Wireless Networks, 2014, 20, 2287-2305.	2.0	8
214	On Interlinking Linked Data Sources by Using Ontology Matching Techniques and the Map-Reduce Framework. Lecture Notes in Computer Science, 2014, , 53-60.	1.0	5
215	A Bi-objective Harmony Search Approach for Deploying Cost-Effective Multi-hop Communications over Large-Area Wildfires. Advances in Intelligent Systems and Computing, 2014, , 93-103.	0.5	1
216	One-way urban traffic reconfiguration using a multi-objective harmony search approach. Expert Systems With Applications, 2013, 40, 3341-3350.	4.4	38

#	Article	IF	Citations
217	On the design of a novel two-objective harmony search approach for distance- and connectivity-based localization in wireless sensor networks. Engineering Applications of Artificial Intelligence, 2013, 26, 669-676.	4.3	20
218	A Decode-and-Forward Scheme for Multihop Wireless Networks. , 2013, , .		0
219	A novel heuristic approach for distance- and connectivity-based multihop node localization in wireless sensor networks. Soft Computing, 2013, 17, 17-28.	2.1	26
220	Fuzzy-Logic Based Framework for Spectrum Availability Assessment in Cognitive Radio Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 2173-2184.	9.7	21
221	Efficient citywide planning of open WiFi access networks using novel grouping harmony searchheuristics. Engineering Applications of Artificial Intelligence, 2013, 26, 1124-1130.	4.3	15
222	A multi-objective grouping Harmony Search algorithm for the optimal distribution of 24-hour medical emergency units. Expert Systems With Applications, 2013, 40, 2343-2349.	4.4	44
223	On the design of a novel joint network-channel coding scheme for the multiple access relay channel. IEEE Journal on Selected Areas in Communications, 2013, 31, 1368-1378.	9.7	12
224	A survey on applications of the harmony search algorithm. Engineering Applications of Artificial Intelligence, 2013, 26, 1818-1831.	4.3	317
225	Efficient design of a double€band coplanar hybrid antenna using multi€objective evolutionary programming. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 620-629.	1.2	3
226	Recent Advances on Meta-Heuristics and Their Application to Real Scenarios. , 2013, , .		0
227	Spectrum band and RAT selection for infrastructure governed opportunistic networks. , 2012, , .		3
228	Robustness of different TMR granularities in shared wishbone architectures on SRAM FPGA. , 2012, , .		9
229	A preliminary approach to near-optimal multi-hop capacitated network design using grouping-dandelion encoded heuristics. , 2012, , .		5
230	Flexible Channel Coding Approach for Short-Length Codewords. IEEE Communications Letters, 2012, 16, 1508-1511.	2.5	6
231	Evaluating the Internationalization Success of Companies Through a Hybrid Grouping Harmony Search€Extreme Learning Machine Approach. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 388-398.	7.3	27
232	Mobile clouds: How to find opportunities. , 2012, , .		1
233	A discrete Particle Swarm Optimization Algorithm for Mobile Network Deployment Problems. , 2012, , .		1
234	A heuristically-driven multi-criteria tool for the design of efficient open WiFi access networks. , 2012, , .		2

#	Article	IF	Citations
235	On the design of an heuristically optimized multiband spectrum sensing approach for cognitive radio systems. , 2012, , .		0
236	Differentiation in the Cloud: Methodology for Integrating Customer Values in Experience Design. , 2012, , .		0
237	Asymptotic analysis of flooding in CSMA-based large scale ad-hoc wireless networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	1
238	Analysis of quantization effects on the performance of cooperative MIMO techniques in wireless networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	1
239	Centralized and distributed spectrum channel assignment in cognitive wireless networks: A Harmony Search approach. Applied Soft Computing Journal, 2012, 12, 921-930.	4.1	42
240	A comparative study of two hybrid grouping evolutionary techniques for the capacitated P-median problem. Computers and Operations Research, 2012, 39, 2214-2222.	2.4	30
241	A novel grouping harmony search algorithm for the multiple-type access node location problem. Expert Systems With Applications, 2012, 39, 5262-5270.	4.4	23
242	A new grouping genetic algorithm for clustering problems. Expert Systems With Applications, 2012, 39, 9695-9703.	4.4	121
243	A hybrid harmony search algorithm for the spread spectrum radar polyphase codes design problem. Expert Systems With Applications, 2012, 39, 11089-11093.	4.4	23
244	Social Acceptance and Usage Experiences from a Mobile Location-Aware Service Environment. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 186-197.	0.2	5
245	Concurrent and Distributed Projection through Local Interference for Wireless Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 109-119.	0.2	2
246	Architecture and Approach for Obtaining Spectrum Availability Information. , 2011, , .		5
247	Resource allocation in rate-limited OFDMA Systems: A hybrid heuristic approach. , 2011, , .		3
248	Joint Non-Binary LDPC-BICM and Network Coding with Iterative Decoding for the Multiple Access Relay Channel. , 2011, , .		5
249	Iterative Fusion of Distributed Decisions over the Gaussian Multiple-Access Channel Using Concatenated BCH-LDGM Codes. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	3
250	Decision-making system for obtaining spectrum availability information in opportunistic networks. , 2011, , .		5
251	Iterative power and subcarrier allocation in rate-constrained orthogonal multicarrier downlink systems based on hybrid harmony search heuristics. Engineering Applications of Artificial Intelligence, 2011, 24, 748-756.	4.3	19
252	A Grouping Harmony Search approach for the Citywide WiFi deployment problem. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
253	On the Application of a Novel Hybrid Harmony Search Algorithm to the Radar Polyphase Code Design Problem. , 2011, , .		1
254	On the application of a hybrid Harmony Search algorithm to node localization in anchor-based Wireless Sensor Networks. , 2011, , .		4
255	CTRQ 2010 Preface. , 2010, , .		0
256	Signal shaping scheme based on the BWT for the transmission of non-binary sources with memory over the AWGN channel. , 2010, , .		2
257	Joint Source-Channel Coding of Sources with Memory using Turbo Codes and the Burrows-Wheeler Transform. IEEE Transactions on Communications, 2010, 58, 1984-1992.	4.9	12
258	On the design of frequency-switching patterns for distributed data fusion over relay networks. , 2010, , .		2
259	Enhanced sensing error probability estimation for iterative data fusion in the low SNR regime. , 2010, , .		2
260	A novel Harmony Search based spectrum allocation technique for cognitive radio networks. , 2010, , .		7
261	Erratum to "serially-concatenated LDGM codes for correlated sources over Gaussian broadcast channels". IEEE Communications Letters, 2010, 14, 235-235.	2.5	1
262	Turbo joint source-channel coding of non-uniform memoryless sources in the bandwidth-limited regime. IEEE Communications Letters, 2010, 14, 336-338.	2.5	1
263	Design and implementation of a direct RF-to-digital UHF-TV multichannel transceiver. , 2010, , .		1
264	A novel CAM-based traffic light preemption algorithm for efficient guidance of emergency vehicles. , 2010, , .		8
265	Centralized synchronization methods for distributed detection in sensor networks. , 2010, , .		0
266	On the Application of a Novel Grouping Harmony Search Algorithm to the Switch Location Problem. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 662-672.	0.2	11
267	Joint Turbo Coding and Source-Controlled Modulation of Cycle-Stationary Sources in the Bandwidth-Limited Regime. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 618-625.	0.2	0
268	Harmony Search Heuristics for Quasi-asynchronous CDMA Detection with M-PAM Signalling. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 626-637.	0.2	1
269	On the Performance of Single LDGM Codes for Iterative Data Fusion over the Multiple Access Channel. Lecture Notes in Computer Science, 2010, , 47-57.	1.0	0
270	H.264/SVC rate-resiliency tradeoff in faulty communications through 802.16e railway networks. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
271	A novel heuristic algorithm for multiuser detection in synchronous CDMA wireless sensor networks. , 2009, , .		10
272	Joint Source-Channel-Network Decoding and Blind Estimation of Correlated Sensors Using Concatenated Zigzag Codes. Lecture Notes in Computer Science, 2009, , 30-41.	1.0	5
273	Iterative concatenated Zigzag decoding and blind data fusion of correlated sensors. , 2009, , .		5
274	Wiener filter-based fixed-complexity vector precoding for the MIMO downlink channel. , 2009, , .		3
275	Design, simulation and hardware validation of a low-cost CLMS echo canceling system. , 2009, , .		3
276	Serially-concatenated LDGM codes for correlated sources over gaussian broadcast channels. IEEE Communications Letters, 2009, 13, 788-790.	2.5	5
277	Performance evaluation of H.264/MPEG-4 Scalable Video Coding over IEEE 802.16e networks. , 2009, , .		10
278	A Low-Cost FPGA-Based Embedded Fingerprint Verification and Matching System. Lecture Notes in Electrical Engineering, 2009, , 247-260.	0.3	3
279	Performance Analysis of a Novel Dual-Frequency Multiple Access Relay Transmission Scheme. International Journal of Communications, Network and System Sciences, 2009, 02, 592-599.	0.4	1
280	Uncoded optimal binary communication for sources with memory using the Burrows Wheeler Transform. AEU - International Journal of Electronics and Communications, 2008, 62, 597-609.	1.7	5
281	Design, Simulation and Implementation of a Channel Equalizer for DVB-T On-channel Repeaters. , 2008, , .		2
282	Improved dual frequency multiple access relay scheme for spatially correlated sources. , 2008, , .		0
283	A Novel Dual-Frequency Multiple Access Relay Transmission Scheme. , 2007, , .		3
284	On Combining Distributed Joint Source-Channel-Network Coding and Turbo Equalization in Multiple Access Relay Networks. , 2007, , .		6
285	Diversity Gain Analysis of a Novel Dual-Frequency Multiple Access Relay Transmission Scheme. , 2007, , .		3
286	Source Controlled Modulation Scheme for Sources with Memory. , 2007, , .		4
287	Joint Source-Channel Decoding ASIP Architecture for Sensor Networks. Lecture Notes in Computer Science, 2007, , 98-108.	1.0	0
288	On the Coexistence of Pulsed UWB Communications with TV Distribution Services over MATV Cable Networks. , 2006, , .		2

#	Article	IF	Citations
289	Asymmetric Joint Source-Channel Coding for Correlated Sources with Blind HMM Estimation at the Receiver. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	1.5	12
290	Joint Source-Channel Decoding of Correlated Sources over ISI Channels. , 0, , .		9
291	Introductory Chapter: Nature-Inspired Methods for Stochastic, Robust, and Dynamic Optimization. , 0, , .		0
292	Introductory Chapter: Swarm Intelligence - Recent Advances, New Perspectives, and Applications. , 0, , .		1