Gianluigi Folino

List of Publications by Year
in descending order

79	1,091	430754 18	454834 30
papers	citations	h-index	g-index

85	85	85	997
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ensemble based collaborative and distributed intrusion detection systems: A survey. Journal of Network and Computer Applications, 2016, 66, 1-16.	5.8	95
2	MTR: taxonomic annotation of short metagenomic reads using clustering at multiple taxonomic ranks. Bioinformatics, 2011, 27, 196-203.	1.8	75
3	A scalable cellular implementation of parallel genetic programming. IEEE Transactions on Evolutionary Computation, 2003, 7, 37-53.	7.5	55
4	Statistical genetic programming for symbolic regression. Applied Soft Computing Journal, 2017, 60, 447-469.	4.1	48
5	GP ensembles for large-scale data classification. IEEE Transactions on Evolutionary Computation, 2006, 10, 604-616.	7.5	47
6	Training Distributed GP Ensemble With a Selective Algorithm Based on Clustering and Pruning for Pattern Classification. IEEE Transactions on Evolutionary Computation, 2008, 12, 458-468.	7.5	40
7	A model based on cellular automata for the parallel simulation of 3D unsaturated flow. Parallel Computing, 2006, 32, 357-376.	1.3	38
8	Genetic Programming and Simulated Annealing: A Hybrid Method to Evolve Decision Trees. Lecture Notes in Computer Science, 2000, , 294-303.	1.0	37
9	Parallel hybrid method for SAT that couples genetic algorithms and local search. IEEE Transactions on Evolutionary Computation, 2001, 5, 323-334.	7.5	36
10	On learning effective ensembles of deep neural networks for intrusion detection. Information Fusion, 2021, 72, 48-69.	11.7	34
11	Distributed Nearest Neighbor-Based Condensation of Very Large Data Sets. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 1593-1606.	4.0	30
12	An adaptive flocking algorithm for performing approximate clustering. Information Sciences, 2009, 179, 3059-3078.	4.0	30
13	An ensemble-based evolutionary framework for coping with distributed intrusion detection. Genetic Programming and Evolvable Machines, 2010, 11, 131-146.	1.5	27
14	Differences in sequencing technologies improve the retrieval of anammox bacterial genome from metagenomes. BMC Genomics, 2013, 14, 7.	1.2	25
15	A Bayesian Approach for Combining Ensembles of GP Classifiers. Lecture Notes in Computer Science, 2011, , 26-35.	1.0	24
16	Using Bayesian networks for selecting classifiers in GP ensembles. Information Sciences, 2014, 258, 200-216.	4.0	21
17	Evolving meta-ensemble of classifiers for handling incomplete and unbalanced datasets in the cyber security domain. Applied Soft Computing Journal, 2016, 47, 179-190.	4.1	21
18	Ensemble Techniques for Parallel Genetic Programming Based Classifiers. Lecture Notes in Computer Science, 2003, , 59-69.	1.0	18

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19	A grid portal for solving geoscience problems using distributed knowledge discovery services. Future Generation Computer Systems, 2010, 26, 87-96.	4.9	18
20	An Incremental Ensemble Evolved by using Genetic Programming to Efficiently Detect Drifts in Cyber Security Datasets. , 2016, , .		18
21	Combining Ensemble of Classifiers by Using Genetic Programming for Cyber Security Applications. Lecture Notes in Computer Science, 2015, , 54-66.	1.0	18
22	Combining cellular genetic algorithms and local search for solving satisfiability problems. , 0, , .		17
23	A Distributed Intrusion Detection Framework Based on Evolved Specialized Ensembles of Classifiers. Lecture Notes in Computer Science, 2016, , 315-331.	1.0	17
24	An Adaptive Distributed Ensemble Approach to Mine Concept-Drifting Data Streams. , 2007, , .		15
25	Parallel Execution of Cellular Automata through Space Partitioning: The Landslide Simulation Sciddicas3-Hex Case Study. , 2017, , .		15
26	An Adaptive Flocking Algorithm for Spatial Clustering. Lecture Notes in Computer Science, 2002, , 924-933.	1.0	15
27	An autonomic tool for building self-organizing Grid-enabled applications. Future Generation Computer Systems, 2007, 23, 671-679.	4.9	14
28	A GP-based ensemble classification framework for time-changing streams of intrusion detection data. Soft Computing, 2020, 24, 17541-17560.	2.1	14
29	Mining Distributed Evolving Data Streams Using Fractal GP Ensembles. Lecture Notes in Computer Science, 2007, , 160-169.	1.0	14
30	Improving GP generalization: a variance-based layered learning approach. Genetic Programming and Evolvable Machines, 2015, 16, 27-55.	1.5	13
31	Automatic offloading of mobile applications into the cloud by means of genetic programming. Applied Soft Computing Journal, 2014, 25, 253-265.	4.1	11
32	Diversity analysis in cellular and multipopulation genetic programming. , 0, , .		10
33	CAGE: A Tool for Parallel Genetic Programming Applications. Lecture Notes in Computer Science, 2001, , 64-73.	1.0	10
34	Parallel genetic programming for decision tree induction. , 0, , .		8
35	Toward High-Throughput, Multicriteria Protein-Structure Comparison and Analysis. IEEE Transactions on Nanobioscience, 2010, 9, 144-155.	2.2	8
36	Exploiting fractal dimension and a distributed evolutionary approach to classify data streams with concept drifts. Applied Soft Computing Journal, 2019, 75, 284-297.	4.1	7

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37	Handling Different Categories of Concept Drifts in Data Streams Using Distributed GP. Lecture Notes in Computer Science, 2010, , 74-85.	1.0	7
38	A Machine Learning Approach for Rainfall Estimation Integrating Heterogeneous Data Sources. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	7
39	Learning Effective Neural Nets for Outcome Prediction from Partially Labelled Log Data. , 2019, , .		6
40	A Deep Learning based architecture for rainfall estimation integrating heterogeneous data sources. , 2019, , .		6
41	Special section: Bio-inspired algorithms for distributed systems. Future Generation Computer Systems, 2010, 26, 835-837.	4.9	5
42	SDCOR: Scalable density-based clustering for local outlier detection in massive-scale datasets. Knowledge-Based Systems, 2021, 228, 107256.	4.0	5
43	Clustering Metagenome Short Reads Using Weighted Proteins. Lecture Notes in Computer Science, 2009, , 152-163.	1.0	5
44	Using Entropy for Evaluating Swarm Intelligence Algorithms. Studies in Computational Intelligence, 2010, , 331-343.	0.7	5
45	Improving cooperative GP ensemble with clustering and pruning for pattern classification. , 2006, , .		4
46	Swarm-Based Distributed Clustering in Peer-to-Peer Systems. Lecture Notes in Computer Science, 2006, , 37-48.	1.0	4
47	A General Architecture for Grid-Based PSE Toolkits. Lecture Notes in Computer Science, 2006, , 656-664.	1.0	4
48	Combining deep ensemble learning and explanation for intelligent ticket management. Expert Systems With Applications, 2022, 206, 117815.	4.4	4
49	Performance evaluation and modeling of MPI communications on the meiko CS-2. Lecture Notes in Computer Science, 1998, , 932-936.	1.0	3
50	Strategies for Parallelizing Swarm Intelligence Algorithms. , 2015, , .		3
51	Semi-Supervised Discovery of DNN-Based Outcome Predictors from Scarcely-Labeled Process Logs. Business and Information Systems Engineering, 2022, 64, 729-749.	4.0	3
52	Discovering Clusters in Spatial Data Using Swarm Intelligence. Lecture Notes in Computer Science, 2003, , 598-605.	1.0	2
53	Swarming agents for discovering clusters in spatial data. , 0, , .		2
54	On the storage, management and analysis of (multi) similarity for large scale protein structure datasets in the grid. , 2009, , .		2

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55	Efficient discovery of data mining services over DHT-based overlays. , 2014, , .		2
56	Scalable asynchronous execution of cellular automata. AIP Conference Proceedings, 2016, , .	0.3	2
57	Statistical Genetic Programming: The Role of Diversity. Advances in Intelligent Systems and Computing, 2014, , 37-48.	0.5	2
58	Pruning GP-Based Classifier Ensembles by Bayesian Networks. Lecture Notes in Computer Science, 2012, , 236-245.	1.0	2
59	A Framework for Modeling Automatic Offloading of Mobile Applications Using Genetic Programming. Lecture Notes in Computer Science, 2013, , 62-71.	1.0	2
60	CELLAR: a high level cellular programming language with regions. , 0, , .		1
61	StreamGP. , 2007, , .		1
62	A grid-based architecture for nearest neighbor based condensation of huge datasets. , 2008, , .		1
63	A distributed framework for supporting adaptive ensemble-based intrusion detection. , 2015, , .		1
64	An Ensemble-Based P2P Framework for the Detection of Deviant Business Process Instances. , 2018, , .		1
65	A p2p environment to validate ensemble-based approaches in the cybersecurity domain. , 2020, , .		1
66	A Cybersecurity Framework for Classifying Non Stationary Data Streams Exploiting Genetic Programming and Ensemble Learning. Lecture Notes in Computer Science, 2020, , 269-277.	1.0	1
67	Modeling the Offloading of Different Types of Mobile Applications by Using Evolutionary Algorithms. Lecture Notes in Computer Science, 2014, , 86-97.	1.0	1
68	A Scalable Architecture Exploiting Elastic Stack and Meta Ensemble of Classifiers for Profiling User Behaviour. , 2022, , .		1
69	Predictability of cellular programs implemented with CAMELot. , 0, , .		0
70	CAMELotGrid: A Grid-based PSE for Autonomic Cellular Applications. , 0, , .		0
71	Content-based mining for solving geoprocessing problems on grids. , 2007, , .		0
72	Performance Evaluation of Protein Structure Comparison Algorithms Under Integrated Resource Management Environment for MPI Jobs. , 2008, , .		0

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73	Distributed Anytime Clustering Using Biologically Inspired Systems. , 2009, , .		0
74	Using bayesian networks for selecting classifiers in GP ensembles. , 2011, , .		0
75	Preface: nature inspired solutions for high performance computing. Natural Computing, 2013, 12, 27-28.	1.8	0
76	A Peer-to-Peer Architecture for Detecting Attacks from Network Traffic and Log Data. , 2017, , .		0
77	Using genetic programming for combining an ensemble of local and global outlier algorithms to detect new attacks. , 2019, , .		0
78	Evidence-Based Clustering of Reads and Taxonomic Analysis of Metagenomic Data. Lecture Notes in Computer Science, 2009, , 102-112.	1.0	0
79	On the Scalability of Multi-Criteria Protein Structure Comparison in the Grid. Lecture Notes in Computer Science, 2011, , 193-200.	1.0	0