Clara Pizzuti

List of Publications by Year
in descending order

97 papers	3,394 citations	257101 24 h-index	168136 53 g-index
100 all docs	100 docs citations	100 times ranked	2534 citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Outlier Detection in High Dimensional Spaces. Lecture Notes in Computer Science, 2002, , 15-27.	1.0	423
2	A Multiobjective Genetic Algorithm to Find Communities in Complex Networks. IEEE Transactions on Evolutionary Computation, 2012, 16, 418-430.	7.5	339
3	GA-Net: A Genetic Algorithm for Community Detection in Social Networks. Lecture Notes in Computer Science, 2008, , 1081-1090.	1.0	307
4	Outlier mining in large high-dimensional data sets. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 203-215.	4.0	277
5	An Evolutionary Multiobjective Approach for Community Discovery in Dynamic Networks. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1838-1852.	4.0	200
6	Evolutionary Computation for Community Detection in Networks: A Review. IEEE Transactions on Evolutionary Computation, 2018, 22, 464-483.	7.5	134
7	A Multi-objective Genetic Algorithm for Community Detection in Networks. , 2009, , .		97
8	Algorithms and tools for protein–protein interaction networks clustering, with a special focus on population-based stochastic methods. Bioinformatics, 2014, 30, 1343-1352.	1.8	91
9	A single pass algorithm for clustering evolving data streams based on swarm intelligence. Data Mining and Knowledge Discovery, 2013, 26, 1-26.	2.4	68
10	Community detection in social networks with genetic algorithms. , 2008, , .		61
11	Is Normalized Mutual Information a Fair Measure for Comparing Community Detection Methods?. , 2015, , .		61
12	A scalable cellular implementation of parallel genetic programming. IEEE Transactions on Evolutionary Computation, 2003, 7, 37-53.	7.5	55
13	Overlapped community detection in complex networks. , 2009, , .		51
14	GP ensembles for large-scale data classification. IEEE Transactions on Evolutionary Computation, 2006, 10, 604-616.	7.5	47
15	Local tuning and partition strategies for diagonal GO methods. Numerische Mathematik, 2003, 94, 93-106.	0.9	46
16	P-autoclass: scalable parallel clustering for mining large data sets. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 629-641.	4.0	42
17	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
18	Multiobjective Optimization and Local Merge for Clustering Attributed Graphs. IEEE Transactions on Cybernetics, 2020, 50, 4997-5009.	6.2	40

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19	Genetic Programming and Simulated Annealing: A Hybrid Method to Evolve Decision Trees. Lecture Notes in Computer Science, 2000, , 294-303.	1.0	37
20	A Multiobjective and Evolutionary Clustering Method for Dynamic Networks. , 2010, , .		36
21	Correction for Closeness: Adjusting Normalized Mutual Information Measure for Clustering Comparison. Computational Intelligence, 2017, 33, 579-601.	2.1	35
22	Random walk biclustering for microarray data. Information Sciences, 2008, 178, 1479-1497.	4.0	34
23	Overlapping Community Discovery Methods: A Survey. Lecture Notes in Social Networks, 2014, , 105-125.	0.8	33
24	A Comorbidity Network Approach to Predict Disease Risk. Lecture Notes in Computer Science, 2010, , 102-109.	1.0	32
25	Bursty Event Detection in Twitter Streams. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-28.	2.5	31
26	A Coclustering Approach for Mining Large Protein-Protein Interaction Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 717-730.	1.9	29
27	Community mining in signed networks. , 2013, , .		29
28	Link Prediction Approaches for Disease Networks. Lecture Notes in Computer Science, 2012, , 99-108.	1.0	29
29	A review of heuristics and metaheuristics for community detection in complex networks: Current usage, emerging development and future directions. Swarm and Evolutionary Computation, 2021, 63, 100885.	4.5	28
30	An ensemble-based evolutionary framework for coping with distributed intrusion detection. Genetic Programming and Evolvable Machines, 2010, 11, 131-146.	1.5	27
31	A comorbidity-based recommendation engine for disease prediction. , 2010, , .		23
32	Boosting the detection of modular community structure with genetic algorithms and local search. , 2012, , .		22
33	Evolutionary Clustering for Mining and Tracking Dynamic Multilayer Networks. Computational Intelligence, 2017, 33, 181-209.	2.1	21
34	Algorithms for selective enumeration of prime implicants. Artificial Intelligence, 1999, 111, 41-72.	3.9	20
35	A Genetic Algorithm for Color Image Segmentation. Lecture Notes in Computer Science, 2013, , 314-323.	1.0	20
36	Community Detection in Multidimensional Networks. , 2014, , .		20

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37	An Evolutionary and Local Refinement Approach for Community Detection in Signed Networks. International Journal on Artificial Intelligence Tools, 2016, 25, 1650021.	0.7	19
38	Detecting Topic Authoritative Social Media Users: A Multilayer Network Approach. IEEE Transactions on Multimedia, 2018, 20, 1195-1208.	5.2	19
39	Ensemble Techniques for Parallel Genetic Programming Based Classifiers. Lecture Notes in Computer Science, 2003, , 59-69.	1.0	18
40	FlockStream: A Bio-Inspired Algorithm for Clustering Evolving Data Streams. , 2009, , .		17
41	Multiobjective evolutionary community detection for dynamic networks. , 2010, , .		16
42	Network-based prediction of COVID-19 epidemic spreading in Italy. Applied Network Science, 2020, 5, 91.	0.8	16
43	Acceleration Tools for Diagonal Information Global Optimization Algorithms. Computational Optimization and Applications, 2001, 18, 5-26.	0.9	15
44	An Adaptive Distributed Ensemble Approach to Mine Concept-Drifting Data Streams. , 2007, , .		15
45	An Evolutionary Approach for Image Segmentation. Evolutionary Computation, 2014, 22, 525-557.	2.3	15
46	Complex Detection in Protein-Protein Interaction Networks: A Compact Overview for Researchers and Practitioners. Lecture Notes in Computer Science, 2012, , 211-223.	1.0	15
47	An evolutionary restricted neighborhood search clustering approach for PPI networks. Neurocomputing, 2014, 145, 53-61.	3.5	14
48	A recommendation engine for disease prediction. Information Systems and E-Business Management, 2015, 13, 609-628.	2.2	14
49	Mining Distributed Evolving Data Streams Using Fractal GP Ensembles. Lecture Notes in Computer Science, 2007, , 160-169.	1.0	14
50	Experimental evaluation of topological-based fitness functions to detect complexes in PPI networks. , 2012, , .		13
51	Many-objective optimization for community detection in multi-layer networks. , 2017, , .		13
52	An approximate algorithm for top-k closest pairs join query in large high dimensional data. Data and Knowledge Engineering, 2005, 53, 263-281.	2.1	12
53	Gene Expression Biclustering Using Random Walk Strategies. Lecture Notes in Computer Science, 2005, , 509-519.	1.0	12
54	A Genetic Algorithm for Community Detection in Attributed Graphs. Lecture Notes in Computer Science, 2018, , 159-170.	1.0	12

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55	PINCoC: A Co-clustering Based Approach to Analyze Protein-Protein Interaction Networks. , 2007, , 821-830.		12
56	A New Evolutionary-Based Clustering Framework for Image Databases. Lecture Notes in Computer Science, 2014, , 322-331.	1.0	11
57	DESCRY: A Density Based Clustering Algorithm for Very Large Data Sets. Lecture Notes in Computer Science, 2004, , 203-210.	1.0	11
58	Eureka!: an interactive and visual knowledge discovery tool. Journal of Visual Languages and Computing, 2004, 15, 1-35.	1.8	10
59	CAGE: A Tool for Parallel Genetic Programming Applications. Lecture Notes in Computer Science, 2001, , 64-73.	1.0	10
60	Multi-functional Protein Clustering in PPI Networks. Communications in Computer and Information Science, 2008, , 318-330.	0.4	10
61	Combining Markov Models and Association Analysis for Disease Prediction. Lecture Notes in Computer Science, 2011, , 39-52.	1.0	9
62	Skin lesion image segmentation using a color genetic algorithm. , 2013, , .		9
63	<i>DynamicNet</i>. , 2013, , .		9
64	A K-means Based Genetic Algorithm for Data Clustering. Advances in Intelligent Systems and Computing, 2017, , 211-222.	0.5	9
65	A Cooperative Evolutionary Approach to Learn Communities in Multilayer Networks. Lecture Notes in Computer Science, 2014, , 222-232.	1.0	9
66	A patch-based measure for image dissimilarity. Neurocomputing, 2016, 171, 362-378.	3.5	8
67	Detection and prediction of distance-based outliers. , 2005, , .		7
68	A Greedy Search Approach to Co-clustering Sparse Binary Matrices. , 2006, , .		5
69	Restricted Neighborhood Search Clustering Revisited: An Evolutionary Computation Perspective. Lecture Notes in Computer Science, 2013, , 59-68.	1.0	5
70	Improving cooperative GP ensemble with clustering and pruning for pattern classification. , 2006, , .		4
71	Analyzing Voting Behavior in Italian Parliament: Group Cohesion and Evolution. , 2012, , .		4
72	Approximate k-Closest-Pairs with Space Filling Curves. Lecture Notes in Computer Science, 2002, , 124-134.	1.0	4

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73	An Evolutionary and Graph-Based Method for Image Segmentation. Lecture Notes in Computer Science, 2012, , 143-152.	1.0	3
74	Mesoscopic analysis of networks with genetic algorithms. World Wide Web, 2013, 16, 545-565.	2.7	3
75	Uncovering communities in multidimensional networks with multiobjective genetic algorithms. , 2014, , .		3
76	Analysis of the Italian Tweet Political Sentiment in 2014 European Elections. , 2015, , .		3
77	An evolutionary motifs-based algorithm for community detection. , 2017, , .		3
78	Improving Influenza Forecasting with Web-Based Social Data. , 2018, , .		3
79	A Genetic Algorithm for Improving Robustness of Complex Networks. , 2018, , .		3
80	A genetic algorithm for finding an optimal curing strategy for epidemic spreading in weighted networks. , 2018, , .		3
81	Self-adaptive Differential Evolution for Community Detection. , 2019, , .		3
82	Discovering Protein Complexes in Protein Interaction Networks. , 2009, , 144-168.		3
83	Constrained evolutionary algorithms for epidemic spreading curing policy. Applied Soft Computing Journal, 2020, 90, 106173.	4.1	2
84	Epidemic Spreading Curing Strategy Over Directed Networks. Lecture Notes in Computer Science, 2020, , 182-194.	1.0	2
85	Community Detection in Attributed Graphs with Differential Evolution. Lecture Notes in Computer Science, 2020, , 323-335.	1.0	2
86	Explaining incompatibilities in data dictionary design through abduction. Data and Knowledge Engineering, 1994, 13, 101-139.	2.1	1
87	Approximate k-Closest-Pairs in Large High-Dimensional Data Sets. Mathematical Modelling and Algorithms, 2005, 4, 149-179.	0.5	1
88	StreamGP. , 2007, , .		1
89	An evolutionary dynamic optimization framework for structure change detection of streaming networks. , 2015, , .		1
90	Characterization of one-dimensional cellular automata rules through topological network features. AIP Conference Proceedings, 2016, , .	0.3	1

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91	Algorithms for Graph and Network Analysis: Clustering and Search of Motifs in Graphs. , 2019, , 95-101.		1
92	Optimal Curing Strategy Enhancement of Epidemic Processes with Self-adaptive SBX Crossover. Communications in Computer and Information Science, 2019, , 151-162.	0.4	1
93	Computation in Complex Networks. Entropy, 2021, 23, 192.	1.1	1
94	A Differential Evolution-Based Approach for Community Detection in Multilayer Networks with Attributes. Lecture Notes in Computer Science, 2020, , 250-265.	1.0	1
95	Mining and Analyzing the Italian Parliament: Party Structure and Evolution. Lecture Notes in Social Networks, 2015, , 249-279.	0.8	1
96	Improving Prediction of Distance-Based Outliers. Lecture Notes in Computer Science, 2004, , 89-100.	1.0	0
97	Multiple Network Motif Clustering with Genetic Algorithms. Communications in Computer and Information Science, 2018, , 296-307.	0.4	0