Alberto Paolo Tonda

List of Publications by Year
in descending order

87 papers	**1,071** citations	471371 **17** h-index	501076 **28** g-index
97 all docs	**97** docs citations	**97** times ranked	**1331** citing authors

#	Article	IF	Citations
1	Predictable Features Elimination: An Unsupervised Approach toÂFeature Selection. Lecture Notes in Computer Science, 2022, , 399-412.	1.0	1
2	A virtual sensor for backlash in robotic manipulators. Journal of Intelligent Manufacturing, 2022, 33, 1921-1937.	4.4	1
3	Looking for archetypes: Applying game data mining to hearthstone decks. Entertainment Computing, 2022, 43, 100498.	1.8	0
4	Modelling Asthma Patientsâ€™ Responsiveness to Treatment Using Feature Selection and Evolutionary Computation. Lecture Notes in Computer Science, 2021, , 359-372.	1.0	1
5	Modelling Processes and Products in the Cereal Chain. Foods, 2021, 10, 82.	1.9	4
6	Exploiting Artificial Swarms for the Virtual Measurement of Backlash in Industrial Robots. , 2021, , .		1
7	Design of specific primer sets for SARS-CoV-2 variants using evolutionary algorithms. , 2021, , .		3
8	An evolutionary framework for maximizing influence propagation in social networks. Software Impacts, 2021, 9, 100107.	0.8	5
9	Classification and specific primer design for accurate detection of SARS-CoV-2 using deep learning. Scientific Reports, 2021, 11, 947.	1.6	66
10	Discovering Hierarchical Neural Archetype Sets. Smart Innovation, Systems and Technologies, 2021, , 255-267.	0.5	2
11	Optimizing Hearthstone agents using an evolutionary algorithm. Knowledge-Based Systems, 2020, 188, 105032.	4.0	18
12	Inspyred: Bio-inspired algorithms in Python. Genetic Programming and Evolvable Machines, 2020, 21, 269-272.	1.5	18
13	Machine Learning-Based Ensemble Recursive Feature Selection of Circulating miRNAs for Cancer Tumor Classification. Cancers, 2020, 12, 1785.	1.7	38
14	Two complementary methods for the computational modeling of cleaning processes in food industry. Computers and Chemical Engineering, 2020, 135, 106733.	2.0	7
15	Making Sense of Economics Datasets with Evolutionary Coresets. Advances in Intelligent Systems and Computing, 2020, , 162-170.	0.5	0
16	A Novel Outlook on Feature Selection as a Multi-objective Problem. Lecture Notes in Computer Science, 2020, , 68-81.	1.0	3
17	Virtual Measurement of the Backlash Gap in Industrial Manipulators. Communications in Computer and Information Science, 2020, , 189-200.	0.4	1
18	Scientific Challenges in Performing Life-Cycle Assessment in the Food Supply Chain. Foods, 2019, 8, 301.	1.9	24

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19	A mathematical model for the prediction of the whey protein fouling mass in a pilot scale plate heat exchanger. Food Control, 2019, 106, 106729.	2.8	14
20	Automatic discovery of 100-miRNA signature for cancer classification using ensemble feature selection. BMC Bioinformatics, 2019, 20, 480.	1.2	54
21	Annotation data about multi criteria assessment methods used in the agri-food research: The french national institute for agricultural research (INRA) experience. Data in Brief, 2019, 25, 104204.	0.5	2
22	Multi-Criteria Reverse Engineering for Food: Genesis and Ongoing Advances. Food Engineering Reviews, 2019, 11, 44-60.	3.1	17
23	Cross-European initial survey on the use of mathematical models in food industry. Journal of Food Engineering, 2019, 261, 109-116.	2.7	23
24	Trade-offs and synergies between livestock production and other ecosystem services. Agricultural Systems, 2019, 168, 58-72.	3.2	37
25	Fundamental Flowers: Evolutionary Discovery of Coresets for Classification. Lecture Notes in Computer Science, 2019, , 550-564.	1.0	1
26	Evolutionary optimization of convolutional neural networks for cancer miRNA biomarkers classification. Applied Soft Computing Journal, 2018, 65, 91-100.	4.1	44
27	Multiscale modeling for bioresources and bioproducts. Innovative Food Science and Emerging Technologies, 2018, 46, 41-53.	2.7	5
28	Review on environmental models in the food chain - Current status and future perspectives. Journal of Cleaner Production, 2018, 176, 1012-1025.	4.6	65
29	Countering Android Malware: A Scalable Semi-Supervised Approach for Family-Signature Generation. IEEE Access, 2018, 6, 59540-59556.	2.6	20
30	VALIS: an evolutionary classification algorithm. Genetic Programming and Evolvable Machines, 2018, 19, 453-471.	1.5	5
31	Automated playtesting in collectible card games using evolutionary algorithms: A case study in hearthstone. Knowledge-Based Systems, 2018, 153, 133-146.	4.0	27
32	Improving Multi-objective Evolutionary Influence Maximization in Social Networks. Lecture Notes in Computer Science, 2018, , 117-124.	1.0	9
33	LIDeOGraM: An Interactive Evolutionary Modelling Tool. Lecture Notes in Computer Science, 2018, , 189-201.	1.0	4
34	Data driven modeling of plastic deformation. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 981-1004.	3.4	65
35	Multi-objective Evolutionary Algorithms for Influence Maximization in Social Networks. Lecture Notes in Computer Science, 2017, , 221-233.	1.0	12
36	In silico modeling of protein hydrolysis by endoproteases: a case study on pepsin digestion of bovine lactoferrin. Food and Function, 2017, 8, 4404-4413.	2.1	9

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37	(Over-)Realism in evolutionary computation: Commentary on â€œOn the Mapping of Genotype to Phenotype in Evolutionary Algorithmsâ€•by Peter A. Whigham, Grant Dick, and James Maclaurin. Genetic Programming and Evolvable Machines, 2017, 18, 391-393.	1.5	4
38	MPDEA 2016 Chairs' Welcome & Organization. , 2016, , .		0
39	Promoting Diversity in Evolutionary Algorithms. , 2016, , .		2
40	Evolutionary deckbuilding in hearthstone. , 2016, , .		14
41	Portfolio Optimization, a Decision-Support Methodology for Small Budgets. Lecture Notes in Computer Science, 2016, , 58-72.	1.0	1
42	Tutorials at PPSN 2016. Lecture Notes in Computer Science, 2016, , 1012-1022.	1.0	0
43	Anatomy of a portfolio optimizer under a limited budget constraint. Evolutionary Intelligence, 2016, 9, 125-136.	2.3	5
44	The Uncertainty Quandary: A Study in the Context of the Evolutionary Optimization in Games and Other Uncertain Environments. Lecture Notes in Computer Science, 2016, , 40-60.	1.0	1
45	Optimizing groups of colluding strong attackers in mobile urban communication networks with evolutionary algorithms. Applied Soft Computing Journal, 2016, 40, 416-426.	4.1	17
46	Some remarks on computational approaches towards sustainable complex agri-food systems. Trends in Food Science and Technology, 2016, 48, 88-101.	7.8	28
47	Exploiting Evolutionary Modeling to Prevail in Iterated Prisonerâ€™s Dilemma Tournaments. IEEE Transactions on Games, 2016, 8, 288-300.	1.7	5
48	Divergence of character and premature convergence: A survey of methodologies for promoting diversity in evolutionary optimization. Information Sciences, 2016, 329, 782-799.	4.0	86
49	A General-Purpose Framework for Genetic Improvement. Lecture Notes in Computer Science, 2016, , 345-352.	1.0	1
50	Operator Selection using Improved Dynamic Multi-Armed Bandit. , 2015, , .		11
51	Malware Obfuscation through Evolutionary Packers. , 2015, , .		6
52	Black Holes and Revelations: Using Evolutionary Algorithms to Uncover Vulnerabilities in Disruption-Tolerant Networks. Lecture Notes in Computer Science, 2015, , 29-41.	1.0	2
53	TURAN: Evolving non-deterministic players for the iterated prisoner's dilemma. , 2014, , .		4
54	Towards automated malware creation. , 2014, , .		23

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55	The tradeoffs between data delivery ratio and energy costs in wireless sensor networks. , 2014, , .		7
56	Universal information distance for genetic programming. , 2014, , .		1
57	The impact of topology on energy consumption for collection tree protocols: An experimental assessment through evolutionary computation. Applied Soft Computing Journal, 2014, 16, 210-222.	4.1	14
58	Food model exploration through evolutionary optimisation coupled with visualisation: Application to the prediction of a milk gel structure. Innovative Food Science and Emerging Technologies, 2014, 25, 67-77.	2.7	5
59	Balancing User Interaction and Control in BNSL. Lecture Notes in Computer Science, 2014, , 211-223.	1.0	2
60	An efficient distance metric for linear genetic programming. , 2013, , .		5
61	Evolutionary optimization of wetlands design. , 2013, , .		1
62	A Memetic Approach to Bayesian Network Structure Learning. Lecture Notes in Computer Science, 2013, , 102-111.	1.0	7
63	An Evolutionary Framework for Routing Protocol Analysis in Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 1-11.	1.0	3
64	Automatic Generation of On-Line Test Programs through a Cooperation Scheme. , 2012, , .		0
65	A benchmark for cooperative coevolution. Memetic Computing, 2012, 4, 263-277.	2.7	12
66	Industrial Applications of Evolutionary Algorithms. Intelligent Systems Reference Library, 2012, , .	1.0	9
67	Software-Based Testing for System Peripherals. Journal of Electronic Testing: Theory and Applications (JETTA), 2012, 28, 189-200.	0.9	5
68	Bayesian Network Structure Learning from Limited Datasets through Graph Evolution. Lecture Notes in Computer Science, 2012, , 254-265.	1.0	10
69	On the Functional Test of Branch Prediction Units Based on the Branch History Table Architecture. International Federation for Information Processing, 2012, , 110-123.	0.4	3
70	On the functional test of Branch Prediction Units based on Branch History Table. , 2011, , .		8
71	Automatic Generation of Software-based Functional Failing Test for Speed Debug and On-silicon Timing Verification. , 2011, , .		5
72	Post-silicon failing-test generation through evolutionary computation. , 2011, , .		3

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73	Functional test generation for the pLRU replacement mechanism of embedded cache memories. , 2011, , .		1
74	Functional Verification of DMA Controllers. Journal of Electronic Testing: Theory and Applications (JETTA), 2011, 27, 505-516.	0.9	2
75	Increasing pattern recognition accuracy for chemical sensing by evolutionary based drift compensation. Pattern Recognition Letters, 2011, 32, 1594-1603.	2.6	50
76	Evolutionary failing-test generation for modern microprocessors. , 2011, , .		1
77	Group evolution: Emerging synergy through a coordinated effort. , 2011, , .		3
78	Covariance Matrix Adaptation Evolutionary Strategy for Drift Correction of Electronic Nose Data. , 2011, , .		0
79	Lamps: A Test Problem for Cooperative Coevolution. Studies in Computational Intelligence, 2011, , 101-120.	0.7	5
80	Evolution of Test Programs Exploiting a FSM Processor Model. Lecture Notes in Computer Science, 2011, , 162-171.	1.0	0
81	A Framework for Automated Detection of Power-related Software Errors in Industrial Verification Processes. Journal of Electronic Testing: Theory and Applications (JETTA), 2010, 26, 689-697.	0.9	8
82	Towards drift correction in chemical sensors using an evolutionary strategy. , 2010, , .		0
83	Evolving Individual Behavior in a Multi-agent Traffic Simulator. Lecture Notes in Computer Science, 2010, , 11-20.	1.0	2
84	Exploiting Evolution for an Adaptive Drift-Robust Classifier in Chemical Sensing. Lecture Notes in Computer Science, 2010, , 412-421.	1.0	4
85	Automatic detection of software defects. , 2009, , .		1
86	On the Generation of Functional Test Programs for the Cache Replacement Logic. , 2009, , .		2
87	A novel methodology for diversity preservation in evolutionary algorithms. , 2008, , .		7