

# Pedro Castillo Valdivieso

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119  
papers

963  
citations

15  
h-index

26  
g-index

133  
ext. papers

1,154  
ext. citations

2.1  
avg, IF

4.18  
L-index

#	Paper	IF	Citations
119	EvoCC: An Open-Source Classification-Based Nature-Inspired Optimization Clustering Framework in Python. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 77-92	0.9	0
118	Exploring the Role of Chatbots and Messaging Applications in Higher Education: A Teacher's Perspective. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 205-223	0.9	
117	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework. <i>SN Computer Science</i> , <b>2021</b> , 2, 1	2	4
116	A Methodology for Redesigning Networks by Using Markov Random Fields. <i>Mathematics</i> , <b>2021</b> , 9, 1389	2.3	
115	Studying How to Apply Chatbots Technology in Higher-Education: First Results and Future Strategies. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 185-198	0.9	1
114	A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. <i>IEEE Access</i> , <b>2021</b> , 9, 100009-100028	3.5	4
113	Comparing the Performance of Deep Learning Methods to Predict Companies' Financial Failure. <i>IEEE Access</i> , <b>2021</b> , 9, 97010-97038	3.5	3
112	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. <i>IEEE Access</i> , <b>2021</b> , 9, 41082-41103	3.5	8
111	. <i>IEEE Access</i> , <b>2020</b> , 8, 54237-54253	3.5	2
110	Using Evolutionary Algorithms for Server Hardening via the Moving Target Defense Technique. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 670-685	0.9	0
109	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework in Python. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 20-36	0.9	14
108	. <i>IEEE Access</i> , <b>2020</b> , 8, 189930-189944	3.5	7
107	Cost-sensitive ensemble methods for bankruptcy prediction in a highly imbalanced data distribution: a real case from the Spanish market. <i>Progress in Artificial Intelligence</i> , <b>2020</b> , 9, 361-375	4	9
106	Improving financial bankruptcy prediction in a highly imbalanced class distribution using oversampling and ensemble learning: a case from the Spanish market. <i>Progress in Artificial Intelligence</i> , <b>2020</b> , 9, 31-53	4	28
105	Improving the algorithmic efficiency and performance of channel-based evolutionary algorithms <b>2019</b> ,		1
104	Distributed multi-objective evolutionary optimization using island-based selective operator application. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 85, 105757	7.5	5
103	Exploring Concurrent and Stateless Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 405-412	0.9	2

102	Scaling in Concurrent Evolutionary Algorithms. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 16-27	0.3	1
101	A bibliometric study of the research area of videogames using Dimensions.ai database. <i>Procedia Computer Science</i> , <b>2019</b> , 162, 737-744	1.6	4
100	Applying Ant Colony optimization for Service Function Chaining in a 5G Network <b>2019</b> ,		2
99	From ephemeral computing to deep bioinspired algorithms: New trends and applications. <i>Future Generation Computer Systems</i> , <b>2018</b> , 88, 735-746	7.5	10
98	Altmétricas a nivel institucional: visibilidad en la Web de la producción científica de las universidades españolas a partir de Altmetric.com. <i>Profesional De La Informacion</i> , <b>2018</b> , 27, 483	3.7	3
97	Studying real traffic and mobility scenarios for a Smart City using a new monitoring and tracking system. <i>Future Generation Computer Systems</i> , <b>2017</b> , 76, 163-179	7.5	38
96	Ranking Programming Languages for Evolutionary Algorithm Operations. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 689-704	0.9	0
95	Applying computational intelligence methods for predicting the sales of newly published books in a real editorial business management environment. <i>Knowledge-Based Systems</i> , <b>2017</b> , 115, 133-151	7.3	22
94	Analysing the influence of the fitness function on genetically programmed bots for a real-time strategy game. <i>Entertainment Computing</i> , <b>2017</b> , 18, 15-29	1.9	5
93	Finding Self-organized Criticality in Collaborative Work via Repository Mining. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 483-496	0.9	
92	Impact of Protests in the Number of Smart Devices in Streets: A New Approach to Analyze Protesters Behavior. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 75-85	0.9	
91	Application Areas of Ephemeral Computing: A Survey. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 153-167	0.9	1
90	Performance for the Masses <b>2016</b> ,		2
89	Comparing Wireless Traffic Tracking with Regular Traffic Control Systems for the Detection of Congestions in Streets. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 42-51	0.9	2
88	Benchmarking Languages for Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 27-41	0.9	3
87	Studying the effect of population size in distributed evolutionary algorithms on heterogeneous clusters. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 38, 530-547	7.5	5
86	Evolopy: An Open-source Nature-inspired Optimization Framework in Python <b>2016</b> ,		39
85	Addressing High Dimensional Multi-objective Optimization Problems by Coevolutionary Islands with Overlapping Search Spaces. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 107-117	0.9	2

84	Simulation Approach for Optimal Maintenance Intervals Estimation of Electronic Devices. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 153-164	0.4	3
83	A Novel Wireless Mobility Monitoring and Tracking System. <i>International Journal of Conceptual Structures and Smart Applications</i> , <b>2016</b> , 4, 55-71		3
82	A comparison of implementations of basic evolutionary algorithm operations in different languages <b>2016</b> ,		1
81	There Can Be only One: Evolving RTS Bots via Joust Selection. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 541-557	0.9	3
80	Comparing Heterogeneous and Homogeneous Flocking Strategies for the Ghost Team in the Game of Ms. Pac-Man. <i>IEEE Transactions on Games</i> , <b>2016</b> , 8, 278-287		1
79	A Cross-Platform Assessment of Energy Consumption in Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 548-557	0.9	8
78	The Uncertainty Quandary: A Study in the Context of the Evolutionary Optimization in Games and Other Uncertain Environments. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 40-60	0.9	1
77	NodIO <b>2016</b> ,		6
76	Corporate security solutions for BYOD: A novel user-centric and self-adaptive system. <i>Computer Communications</i> , <b>2015</b> , 68, 83-95	5.1	14
75	Ephemeral Computing and Bioinspired Optimization - Challenges and Opportunities <b>2015</b> ,		13
74	How the World Was MADE: Parametrization of Evolved Agent-Based Models for Backstory Generation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 443-454	0.9	2
73	Comparing Optimization Methods, in Continuous Space, for Modelling with a Diffusion Process. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 380-390	0.9	1
72	It's Time to Stop: A Comparison of Termination Conditions in the Evolution of Game Bots. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 355-368	0.9	1
71	A Methodology to Develop Service Oriented Evolutionary Algorithms. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 119-125	0.8	
70	Creating autonomous agents for playing Super Mario Bros game by means of evolutionary finite state machines. <i>Evolutionary Intelligence</i> , <b>2014</b> , 6, 205-218	1.7	6
69	Studying and Tackling Noisy Fitness in Evolutionary Design of Game Characters <b>2014</b> ,		5
68	Co-Evolutionary Optimization of Autonomous Agents in a Real-Time Strategy Game. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 374-385	0.9	3
67	Tree Depth Influence in Genetic Programming for Generation of Competitive Agents for RTS Games. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 411-421	0.9	5

66	Evolving Evil: Optimizing Flocking Strategies Through Genetic Algorithms for the Ghost Team in the Game of Ms. Pac-Man. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 313-324	0.9	4
65	Cloud-based evolutionary algorithms: An algorithmic study. <i>Natural Computing</i> , <b>2013</b> , 12, 135-147	1.3	10
64	Pareto-based multi-colony multi-objective ant colony optimization algorithms: an island model proposal. <i>Soft Computing</i> , <b>2013</b> , 17, 1175-1207	3.5	23
63	Service oriented evolutionary algorithms. <i>Soft Computing</i> , <b>2013</b> , 17, 1059-1075	3.5	17
62	hCHAC: A family of MOACO algorithms for the resolution of the bi-criteria military unit pathfinding problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1524-1551	4.6	9
61	<b>2013</b> ,		1
60	Using statistical tools to determine the significance and relative importance of the main parameters of an evolutionary algorithm. <i>Intelligent Data Analysis</i> , <b>2013</b> , 17, 771-789	1.1	2
59	Designing and Evolving an Unreal Tournament™ 2004 Expert Bot. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 312-323	0.9	
58	Determining the significance and relative importance of parameters of a simulated quenching algorithm using statistical tools. <i>Applied Intelligence</i> , <b>2012</b> , 37, 239-254	4.9	7
57	Using Student Conferences to Increase Participation in the Classroom: A Case Study. <i>IEEE Transactions on Education</i> , <b>2012</b> , 55, 580-581	2.1	2
56	GPU Computation in Bioinspired Algorithms: A Review. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 433-440.	0.9	4
55	<b>2011</b> ,		5
54	Using free cloud storage services for distributed evolutionary algorithms <b>2011</b> ,		3
53	A Study of Parallel Approaches in MOACOs for Solving the Bicriteria TSP. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 316-324	0.9	3
52	Implementation Matters: Programming Best Practices for Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 333-340	0.9	14
51	Online vs. Offline ANOVA Use on Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 341-347	0.9	1
50	Evolution of XPath Lists for Document Data Selection <b>2010</b> , 341-350		
49	Algorithm::Evolutionary, a flexible Perl module for evolutionary computation. <i>Soft Computing</i> , <b>2010</b> , 14, 1091-1109	3.5	17

48	Evolvable Agents: A Framework for Peer-to-Peer Evolutionary Algorithms. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 43-62	0.8	2
47	A Distributed Service Oriented Framework for Metaheuristics Using a Public Standard. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 211-222	0.8	7
46	Studying the Influence of the Objective Balancing Parameter in the Performance of a Multi-Objective Ant Colony Optimization Algorithm. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 163-176 <sup>0.8</sup>	0.8	7
45	Parallelizing the Design of Radial Basis Function Neural Networks by Means of Evolutionary Meta-algorithms. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 383-390	0.9	2
44	Studying the Cache Size in a Gossip-Based Evolutionary Algorithm. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 131-140	0.8	1
43	Pervasive Evolutionary Algorithms on Mobile Devices. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 163-170	0.9	2
42	Using UN/CEFACTS Modelling Methodology (UMM) in e-Health Projects. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 925-932	0.9	2
41	Asynchronous distributed genetic algorithms with Javascript and JSON <b>2008</b> ,		16
40	Exploring population structures for locally concurrent and massively parallel Evolutionary Algorithms <b>2008</b> ,		7
39	<b>2008</b> ,		2
38	Comparing multiobjective evolutionary ensembles for minimizing type I and II errors for bankruptcy prediction <b>2008</b> ,		11
37	Evolvable agents, a fine grained approach for distributed evolutionary computing: walking towards the peer-to-peer computing frontiers. <i>Soft Computing</i> , <b>2008</b> , 12, 1145-1156	3.5	9
36	NectarRSS, an intelligent RSS feed reader. <i>Journal of Network and Computer Applications</i> , <b>2008</b> , 31, 793-806	3.5	11
35	hCHAC-4, an ACO Algorithm for Solving the Four-Criteria Military Path-finding Problem. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 73-84	0.8	1
34	Architecture Performance Prediction Using Evolutionary Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 175-183	0.9	3
33	P2P Evolutionary Algorithms: A Suitable Approach for Tackling Large Instances in Hard Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 622-631	0.9	11
32	Evolving XSLT Stylesheets for Document Transformation. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 1021-1030	1.0	4
31	Testing the Intermediate Disturbance Hypothesis: Effect of Asynchronous Population Incorporation on Multi-Deme Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 266-275	0.9	8

30	Evolvable Agents in Static and Dynamic Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 488-497	0.9	2
29	Comparing evolutionary hybrid systems for design and optimization of multilayer perceptron structure along training parameters. <i>Information Sciences</i> , <b>2007</b> , 177, 2884-2905	7.7	21
28	Comparing ACO Algorithms for Solving the Bi-criteria Military Path-Finding Problem <b>2007</b> , 665-674		2
27	Empirical Validation of a Gossiping Communication Mechanism for Parallel EAs <b>2007</b> , 129-136		5
26	Enhancing a MOACO for Solving the Bi-criteria Pathfinding Problem for a Military Unit in a Realistic Battlefield <b>2007</b> , 712-721		5
25	Predicting Financial Distress: A Case Study Using Self-organizing Maps <b>2007</b> , 774-781		4
24	Multiobjective Optimization of Ensembles of Multilayer Perceptrons for Pattern Classification. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 453-462	0.9	4
23	Finding a needle in a haystack using hints and evolutionary computation: the case of evolutionary MasterMind. <i>Applied Soft Computing Journal</i> , <b>2006</b> , 6, 170-179	7.5	15
22	Designing a Control System for an Autonomous Robot Using an Evolutionary Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 685-692	0.9	
21	Evolutionary Design of a Brain-Computer Interface. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 669-676	0.9	0
20	Co-evolving Multilayer Perceptrons Along Training Sets <b>2005</b> , 503-513		
19	Evolving RBF neural networks for time-series forecasting with EvRBF. <i>Information Sciences</i> , <b>2004</b> , 165, 207-220	7.7	72
18	Comparing Hybrid Systems to Design and Optimize Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 240-249	0.9	
17	Conference Paper Assignment Using a Combined Greedy/Evolutionary Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 602-611	0.9	13
16	Evolving two-dimensional fuzzy systems. <i>Fuzzy Sets and Systems</i> , <b>2003</b> , 138, 381-398	3.7	6
15	Cooperative Co-evolution of Multilayer Perceptrons. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 358-365	0.9	2
14	Visualization of Neural Net Evolution. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 534-541	0.9	2
13	Application of HLVQ and G-Prop Neural Networks to the Problem of Bankruptcy Prediction. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 655-662	0.9	5

12	Statistical analysis of the parameters of a neuro-genetic algorithm. <i>IEEE Transactions on Neural Networks</i> , <b>2002</b> , 13, 1374-94		39
11	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2002</b> , 32, 31-37		71
10	G-Prop: Global optimization of multilayer perceptrons using GAs. <i>Neurocomputing</i> , <b>2000</b> , 35, 149-163	5.4	102
9	Evolving Multilayer Perceptrons. <i>Neural Processing Letters</i> , <b>2000</b> , 12, 115-128	2.4	46
8	Optimizing web newspaper layout using simulated annealing. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 759-768	0.9	4
7	SA-prop: Optimization of multilayer perceptron parameters using simulated annealing. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 661-670	0.9	7
6	Improved automatic classification of biological particles from electron-microscopy images using genetic neural nets. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 373-382	0.9	1
5	Improving Evolution of XSLT Stylesheets Using Heuristic Operators. <i>Advances in Soft Computing</i> , 161-170		
4	Evolving Machine Microprograms: Application to the CODE2 Microarchitecture. <i>Advances in Soft Computing</i> , 461-470		
3	Open Access and Altmetrics in the pandemic age: Forecast analysis on COVID-19 literature		9
2	Classification of Arabic healthcare questions based on word embeddings learned from massive consultations: a deep learning approach. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 1	3.7	1
1	Population size influence on the energy consumption of genetic programming. <i>Measurement and Control</i> , 002029402110644	1.5	