Francisco Luna

List of Publications by Year in Descending Order

73 papers	1,404 citations	19 h-index	35 g-index
80 ext. papers	1,676 ext. citations	3.1 avg, IF	4.62 L-index

#	Paper	IF	Citations
73	Scheduling deferrable electric appliances in smart homes: a bi-objective stochastic optimization approach.. *Mathematical Biosciences and Engineering*, **2022**, 19, 34-65	2.1	1
72	A Simulation-Optimization Approach for the Household Energy Planning Problem Considering Uncertainty in Users Preferences. *Communications in Computer and Information Science*, **2021**, 253-267	0.3	1
71	Detection and Mitigation of DoS and DDoS Attacks in IoT-Based Stateful SDN : An Experimental Approach. *Sensors*, **2020**, 20,	3.8	49
70	A Capacity-Enhanced Local Search for the 5G Cell Switch-off Problem. *Communications in Computer and Information Science*, **2020**, 165-178	0.3	1
69	Multiobjective Household Energy Planning Using Evolutionary Algorithms. *Communications in Computer and Information Science*, **2020**, 269-284	0.3	4
68	Approaching the cell switch-off problem in 5G ultra-dense networks with dynamic multi-objective optimization. *Future Generation Computer Systems*, **2020**, 110, 876-891	7.5	4
67	Compact and Low-Loss V-Band Waveguide Phase Shifter Based on Glide-Symmetric Pin Configuration. *IEEE Access*, **2019**, 7, 31297-31304	3.5	19
66	A theoretical and empirical study of the trajectories of solutions on the grid of Systolic Genetic Search. *Information Sciences*, **2018**, 445-446, 97-117	7.7	4
65	Intelligent Wireless Sensor Network Deployment for Smart Communities. *IEEE Communications Magazine*, **2018**, 56, 176-182	9.1	5
64	Grid-enabled evolution strategies for large-scale home care crew scheduling. *Cluster Computing*, **2018**, 21, 1261-1273	2.1	2
63	Addressing the 5G Cell Switch-off Problem with a Multi-objective Cellular Genetic Algorithm **2018**,		4
62	Fuzzy techniques for IPO underpricing prediction. *Journal of Intelligent and Fuzzy Systems*, **2018**, 35, 367-381	1.1	2
61	Solving optimization problems using a hybrid systolic search on GPU plus CPU. *Soft Computing*, **2017**, 21, 3227-3245	3.5	8
60	. *IEEE Access*, **2017**, 5, 5149-5157	3.5	5
59	Improving Diversity in Evolutionary Algorithms: New Best Solutions for Frequency Assignment. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 539-553	15.6	35
58	Distributed Multi-Objective Metaheuristics for Real-World Structural Optimization Problems. *Computer Journal*, **2016**, 59, 777-792	1.3	6
57	Structural design using multi-objective metaheuristics. Comparative study and application to a real-world problem. *Structural and Multidisciplinary Optimization*, **2016**, 53, 545-566	3.6	10

56	Robust technical trading strategies using GP for algorithmic portfolio selection. *Expert Systems With Applications*, **2016**, 46, 307-315	7.8	38
55	Clustering and Beamforming for Efficient Communication in Wireless Sensor Networks. *Sensors*, **2016**, 16,	3.8	8
54	Enhancing Financial Portfolio Robustness with an Objective Based on ?-Neighborhoods. *International Journal of Information Technology and Decision Making*, **2016**, 15, 479-515	2.8	1
53	A Systolic Genetic Search for reducing the execution cost of regression testing. *Applied Soft Computing Journal*, **2016**, 49, 1145-1161	7.5	8
52	Systolic genetic search, a systolic computing-based metaheuristic. *Soft Computing*, **2015**, 19, 1779-1801	3.5	6
51	Parallel Multiobjective Evolutionary Algorithms **2015**, 1017-1031		10
50	An empirical time analysis of evolutionary algorithms as C programs. *Software - Practice and Experience*, **2015**, 45, 111-142	2.5	8
49	Capacity in Weibull Fading with Shadowing for MIMO Distributed System. *Wireless Personal Communications*, **2015**, 80, 1625-1633	1.9	3
48	A parallel local search in CPU/GPU for scheduling independent tasks on large heterogeneous computing systems. *Journal of Supercomputing*, **2015**, 71, 648-672	2.5	18
47	Enhancing distributed EAs by a proactive strategy. *Cluster Computing*, **2014**, 17, 219-229	2.1	2
46	A survey of multi-objective metaheuristics applied to structural optimization. *Structural and Multidisciplinary Optimization*, **2014**, 49, 537-558	3.6	124
45	The software project scheduling problem: A scalability analysis of multi-objective metaheuristics. *Applied Soft Computing Journal*, **2014**, 15, 136-148	7.5	38
44	Systolic Genetic Search for Software Engineering: The Test Suite Minimization Case. *Lecture Notes in Computer Science*, **2014**, 678-689	0.9	3
43	On the quest for robust technical trading strategies using multi-objective optimization. *AI Communications*, **2014**, 27, 453-471	0.8	3
42	Integrating a multi-objective optimization framework into a structural design software. *Advances in Engineering Software*, **2014**, 76, 161-170	3.6	6
41	Systolic neighborhood search on graphics processing units. *Soft Computing*, **2014**, 18, 125-142	3.5	3
40	Large-Scale Home Care Crew Scheduling with a Parallel Evolutionary Algorithm **2013**,		3
39	New Ideas in Parallel Metaheuristics on GPU: Systolic Genetic Search. *Natural Computing Series*, **2013**, 203-225	2.5	4

38	An Efficient Stochastic Local Search for Heterogeneous Computing Scheduling **2012**,		3
37	Towards the Design of Systolic Genetic Search **2012**,		9
36	Exploring the Accuracy of a Parallel Cooperative Model for Trajectory-Based Metaheuristics. *Lecture Notes in Computer Science*, **2012**, 319-326	0.9	1
35	A Novel Multiobjective Formulation of the Robust Software Project Scheduling Problem. *Lecture Notes in Computer Science*, **2012**, 497-507	0.9	4
34	On the scalability of multi-objective metaheuristics for the software scheduling problem **2011**,		5
33	Using multi-objective metaheuristics to solve the software project scheduling problem **2011**,		25
32	Elementary landscape decomposition of the frequency assignment problem. *Theoretical Computer Science*, **2011**, 412, 6002-6019	1.1	7
31	Optimization algorithms for large-scale real-world instances of the frequency assignment problem. *Soft Computing*, **2011**, 15, 975-990	3.5	25
30	Time analysis of standard evolutionary algorithms as software programs **2011**,		4
29	An efficient local improvement operator for the multi-objective wireless sensor network deployment problem. *Engineering Optimization*, **2011**, 43, 1115-1139	2	3
28	Using landscape measures for the online tuning of heterogeneous distributed gas **2011**,		2
27	Bitwise operations for GPU implementation of genetic algorithms **2011**,		9
26	Evolutionary algorithms for solving the automatic cell planning problem: a survey. *Engineering Optimization*, **2010**, 42, 671-690	2	16
25	Elementary landscapes of frequency assignment problems **2010**,		4
24	A Scatter Search Approach for Solving the Automatic Cell Planning Problem. *Lecture Notes in Computer Science*, **2010**, 334-342	0.9	1
23	A New Parallel Cooperative Model for Trajectory Based Metaheuristics. *Advances in Intelligent and Soft Computing*, **2010**, 559-567		3
22	MOCell: A cellular genetic algorithm for multiobjective optimization. *International Journal of Intelligent Systems*, **2009**, 24, 726-746	8.4	176
21	Multi-Objective Particle Swarm Optimizers: An Experimental Comparison. *Lecture Notes in Computer Science*, **2009**, 495-509	0.9	73

20	On the Effect of the Steady-State Selection Scheme in Multi-Objective Genetic Algorithms. *Lecture Notes in Computer Science*, **2009**, 183-197	0.9	35
19	Optimizing the DFCN Broadcast Protocol with a Parallel Cooperative Strategy of Multi-Objective Evolutionary Algorithms. *Lecture Notes in Computer Science*, **2009**, 305-319	0.9	6
18	AbYSS: Adapting Scatter Search to Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2008**, 12, 439-457	15.6	230
17	. *Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on*, **2008**,		40
16	Metaheuristics for solving a real-world frequency assignment problem in GSM networks **2008**,		20
15	A comparative study of the effect of parameter scalability in multi-objective metaheuristics **2008**,		15
14	Solving large-scale real-world telecommunication problems using a grid-based genetic algorithm. *Engineering Optimization*, **2008**, 40, 1067-1084	2	19
13	Solving Three-Objective Optimization Problems Using a New Hybrid Cellular Genetic Algorithm. *Lecture Notes in Computer Science*, **2008**, 661-670	0.9	29
12	A Study of Convergence Speed in Multi-objective Metaheuristics. *Lecture Notes in Computer Science*, **2008**, 763-772	0.9	18
11	Parallel Metaheuristics for Workforce Planning. *Mathematical Modelling and Algorithms*, **2007**, 6, 509-528		13
10	Multi-Objective Optimization using Grid Computing. *Soft Computing*, **2007**, 11, 531-540	3.5	22
9	Design Issues in a Multiobjective Cellular Genetic Algorithm **2007**, 126-140		41
8	ACO vs EAs for solving a real-world frequency assignment problem in GSM networks **2007**,		31
7	Optimal antenna placement using a new multi-objective chc algorithm **2007**,		28
6	Evolutionary Algorithms for Real-World Instances of the Automatic Frequency Planning Problem in GSM Networks. *Lecture Notes in Computer Science*, **2007**, 108-120	0.9	8
5	Parallel Evolutionary Multiobjective Optimization **2006**, 33-56		8
4	Parallel Heterogeneous Metaheuristics **2005**, 395-422		5
3	New Ideas in Applying Scatter Search to Multiobjective Optimization. *Lecture Notes in Computer Science*, **2005**, 443-458	0.9	15

2	Applying Evolutionary Algorithms to Solve the Automatic Frequency Planning Problem271-286	1	
1	Optimizing household energy planning in smart cities: A multiobjective approach. *Revista Facultad De Ingeniería*,	1	4