

Sergio Nesmachnow

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.

149
papers

1,383
citations

17
h-index

32
g-index

167
ext. papers

1,607
ext. citations

1.6
avg, IF

5.47
L-index

#	Paper	IF	Citations
149	ECD-UY, detailed household electricity consumption dataset of Uruguay.. <i>Scientific Data</i> , 2022 , 9, 21	8.2	3
148	Waste bins location problem: A review of recent advances in the storage stage of the Municipal Solid Waste reverse logistic chain. <i>Journal of Cleaner Production</i> , 2022 , 342, 130793	10.3	3
147	Bio-inspired negotiation approach for smart-grid colocation datacenter operation.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 2403-2423	2.1	
146	Travel Time Estimation in Public Transportation Using Bus Location Data. <i>Communications in Computer and Information Science</i> , 2022 , 192-206	0.3	2
145	Energy-Aware Smart Home Planning: A Real Case Study in Montevideo, Uruguay. <i>Communications in Computer and Information Science</i> , 2022 , 146-161	0.3	
144	A Machine Learning Approach for Detecting Traffic Incidents from Video Cameras. <i>Communications in Computer and Information Science</i> , 2022 , 162-177	0.3	
143	Open-Source Big Data Platform for Real-Time Geolocation in Smart Cities. <i>Communications in Computer and Information Science</i> , 2022 , 207-222	0.3	
142	Exact Approach for Electric Vehicle Charging Infrastructure Location: A Real Case Study in Málaga, Spain. <i>Communications in Computer and Information Science</i> , 2022 , 42-57	0.3	2
141	A Case Study of Smart Industry in Uruguay: Grain Production Facility Optimization. <i>Communications in Computer and Information Science</i> , 2022 , 101-115	0.3	1
140	A Practical Approach for Sustainable Transit Oriented Development in Montevideo, Uruguay. <i>Communications in Computer and Information Science</i> , 2022 , 256-270	0.3	1
139	Learning to optimize timetables for efficient transfers in public transportation systems. <i>Applied Soft Computing Journal</i> , 2022 , 119, 108616	7.5	2
138	Parallel/Distributed Intelligent Hyperparameters Search for Generative Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2021 , 297-313	0.9	0
137	Machine Learning for Generic Energy Models of High Performance Computing Resources. <i>Lecture Notes in Computer Science</i> , 2021 , 314-330	0.9	
136	A Thermal Discomfort Index for Demand Response Control in Residential Water Heaters. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10048	2.6	3
135	Instance-Based Learning Following Physician Reasoning for Assistance during Medical Consultation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5886	2.6	1
134	Computational Intelligence for Analysis of Traffic Data. <i>Communications in Computer and Information Science</i> , 2021 , 167-182	0.3	3
133	Demand Response Control in Electric Water Heaters: Evaluation of Impact on Thermal Comfort. <i>Communications in Computer and Information Science</i> , 2021 , 74-89	0.3	1

132	Computational Intelligence for Characterization and Disaggregation of Residential Electricity Consumption. <i>Communications in Computer and Information Science</i> , 2021 , 58-73	0.3	1
131	Public Transportation and Accessibility to Education Centers in Maldonado, Uruguay. <i>Communications in Computer and Information Science</i> , 2021 , 123-138	0.3	
130	Automatic Generation of Interrelated Organisms on Virtual Environments. <i>Lecture Notes in Computer Science</i> , 2021 , 119-128	0.9	
129	Exact and Metaheuristic Approach for Bus Timetable Synchronization to Maximize Transfers. <i>Communications in Computer and Information Science</i> , 2021 , 183-198	0.3	
128	Analysis of Residential Electricity Consumption by Areas in Uruguay. <i>Communications in Computer and Information Science</i> , 2021 , 42-57	0.3	2
127	An explicit evolutionary approach for multiobjective energy consumption planning considering user preferences in smart homes. <i>International Journal of Industrial Engineering Computations</i> , 2021 , 12, 365-380	1.7	3
126	High Performance Computing Simulations of Granular Media in Silos. <i>Communications in Computer and Information Science</i> , 2021 , 34-48	0.3	
125	Parallel/Distributed Generative Adversarial Neural Networks for Data Augmentation of COVID-19 Training Images. <i>Communications in Computer and Information Science</i> , 2021 , 162-177	0.3	5
124	Exact and Evolutionary Algorithms for Synchronization of Public Transportation Timetables Considering Extended Transfer Zones. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7138	2.6	5
123	Virtual Savant as a generic learning approach applied to the basic independent Next Release Problem. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107374	7.5	2
122	Electricity Demand Forecasting Using Computational Intelligence and High Performance Computing. <i>Communications in Computer and Information Science</i> , 2021 , 146-161	0.3	
121	A Simulation-Optimization Approach for the Household Energy Planning Problem Considering Uncertainty in Users Preferences. <i>Communications in Computer and Information Science</i> , 2021 , 253-267	0.3	1
120	Towards a Sustainable Mobility Plan for Engineering Faculty, Universidad de la República, Uruguay. <i>Communications in Computer and Information Science</i> , 2021 , 199-215	0.3	
119	Exact and heuristic approaches for multi-objective garbage accumulation points location in real scenarios. <i>Waste Management</i> , 2020 , 105, 467-481	8.6	19
118	Analysis of Sustainable Public Transportation and Mobility Recommendations for Montevideo and Parque Rodó Neighborhood. <i>Smart Cities</i> , 2020 , 3, 479-510	3.3	13
117	Evolutionary Approach for Bus Synchronization. <i>Communications in Computer and Information Science</i> , 2020 , 320-336	0.3	4
116	A* algorithm for GIS-based pipeline route selection in Veracruz, Mexico 2020 ,		1
115	The Latin American supercomputing ecosystem for science. <i>Communications of the ACM</i> , 2020 , 63, 66-71	2.5	3

114	Short Term Load Forecasting of Industrial Electricity Using Machine Learning. <i>Communications in Computer and Information Science</i> , 2020 , 146-161	0.3	6
113	Urban Data Analysis for the Public Transportation System of Montevideo, Uruguay. <i>Communications in Computer and Information Science</i> , 2020 , 199-214	0.3	4
112	Designing a Backbone Trunk for the Public Transportation Network in Montevideo, Uruguay. <i>Communications in Computer and Information Science</i> , 2020 , 228-243	0.3	2
111	Multiobjective Household Energy Planning Using Evolutionary Algorithms. <i>Communications in Computer and Information Science</i> , 2020 , 269-284	0.3	4
110	Household Energy Disaggregation Based on Pattern Consumption Similarities. <i>Communications in Computer and Information Science</i> , 2020 , 54-69	0.3	7
109	Computational Intelligence for Evaluating the Air Quality in the Center of Madrid, Spain. <i>Communications in Computer and Information Science</i> , 2020 , 115-127	0.3	4
108	Parallel virtual savant for the heterogeneous computing scheduling problem. <i>Journal of Computational Science</i> , 2020 , 39, 101048	3.4	1
107	Sustainable Mobility in the Public Transportation of Montevideo, Uruguay. <i>Communications in Computer and Information Science</i> , 2020 , 93-108	0.3	4
106	Parallel/distributed implementation of cellular training for generative adversarial neural networks 2020 ,		1
105	Urban Mobility Data Analysis for Public Transportation Systems: A Case Study in Montevideo, Uruguay. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5400	2.6	15
104	Active Safety System for Urban Environments with Detecting Harmful Pedestrian Movement Patterns Using Computational Intelligence. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9021	2.6	3
103	Soft computing methods for multiobjective location of garbage accumulation points in smart cities. <i>Annals of Mathematics and Artificial Intelligence</i> , 2020 , 88, 105-131	0.8	12
102	Computational Intelligence for Detecting Pedestrian Movement Patterns. <i>Communications in Computer and Information Science</i> , 2019 , 148-163	0.3	1
101	Parallel evolutionary approaches for game playing and verification using Intel Xeon Phi. <i>Journal of Parallel and Distributed Computing</i> , 2019 , 133, 258-271	4.4	0
100	Demand Response and Ancillary Services for Supercomputing and Datacenters. <i>Communications in Computer and Information Science</i> , 2019 , 203-217	0.3	2
99	Generation and Classification of Energy Load Curves Using a Distributed MapReduce Approach. <i>Communications in Computer and Information Science</i> , 2019 , 3-17	0.3	1
98	Parallel Computing for Processing Data from Intelligent Transportation Systems. <i>Communications in Computer and Information Science</i> , 2019 , 266-281	0.3	3
97	Parallel Implementations of Self-gravity Calculation for Small Astronomical Bodies on Xeon Phi. <i>Communications in Computer and Information Science</i> , 2019 , 157-173	0.3	

96	Multi-objective Optimization of Vehicle Routing with Environmental Penalty. <i>Communications in Computer and Information Science</i> , 2019 , 147-162	0.3	0
95	Comparison of Tree Based Strategies for Parallel Simulation of Self-gravity in Agglomerates. <i>Communications in Computer and Information Science</i> , 2019 , 141-156	0.3	
94	Efficient Optimization Using Metaheuristics. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2019 , 1616-1628	0.3	
93	Cluster-UY: Collaborative Scientific High Performance Computing in Uruguay. <i>Communications in Computer and Information Science</i> , 2019 , 188-202	0.3	26
92	Municipal Solid Waste Management in Smart Cities: Facility Location of Community Bins. <i>Communications in Computer and Information Science</i> , 2019 , 102-115	0.3	3
91	Cloud Computing for Smart Energy Management (CC-SEM Project). <i>Communications in Computer and Information Science</i> , 2019 , 116-131	0.3	3
90	An integrated platform for smart energy management: the CC-SEM project. <i>Revista Facultad De Ingeniería</i> , 2019 ,	1	8
89	A bi-objective integer programming model for locating garbage accumulation points: a case study. <i>Revista Facultad De Ingeniería</i> , 2019 , 70-81	1	3
88	Computational Intelligence for Locating Garbage Accumulation Points in Urban Scenarios. <i>Lecture Notes in Computer Science</i> , 2019 , 411-426	0.9	8
87	Characterization, modeling and scheduling of power consumption of scientific computing applications in multicores. <i>Cluster Computing</i> , 2019 , 22, 839-859	2.1	10
86	Traffic lights synchronization for Bus Rapid Transit using a parallel evolutionary algorithm. <i>International Journal of Transportation Science and Technology</i> , 2019 , 8, 53-67	3.3	13
85	Operating cost and quality of service optimization for multi-vehicle-type timetabling for urban bus systems. <i>Journal of Parallel and Distributed Computing</i> , 2019 , 133, 272-285	4.4	10
84	Support Vector Machine Acceleration for Intel Xeon Phi Manycore Processors. <i>Communications in Computer and Information Science</i> , 2018 , 277-290	0.3	1
83	Performance Improvements of a Parallel Multithreading Self-gravity Algorithm. <i>Communications in Computer and Information Science</i> , 2018 , 291-306	0.3	2
82	Energy Aware Multiobjective Scheduling in a Federation of Heterogeneous Datacenters. <i>Communications in Computer and Information Science</i> , 2018 , 337-352	0.3	
81	Experimental Analysis of Secret Sharing Schemes for Cloud Storage Based on RNS. <i>Communications in Computer and Information Science</i> , 2018 , 370-383	0.3	11
80	A Comparative Analysis of Accurate and Robust Bi-objective Scheduling Heuristics for Datacenters. <i>Communications in Computer and Information Science</i> , 2018 , 223-235	0.3	
79	Multiobjective evolutionary optimization of traffic flow and pollution in Montevideo, Uruguay. <i>Applied Soft Computing Journal</i> , 2018 , 70, 472-485	7.5	18

78 Efficient Optimization Using Metaheuristics **2018**, 7693-7703

77	Power Consumption Characterization of Synthetic Benchmarks in Multicores. <i>Communications in Computer and Information Science</i> , 2018 , 21-37	0.3	2
76	Metaheuristic approaches for IP/MPLS network design. <i>International Transactions in Operational Research</i> , 2018 , 25, 599-625	2.9	10
75	Analysis of Mobility Patterns for Public Transportation and Bus Stops Relocation. <i>Programming and Computer Software</i> , 2018 , 44, 508-525	0.8	16
74	Comparison of Multiobjective Evolutionary Algorithms for Prioritized Urban Waste Collection in Montevideo, Uruguay. <i>Electronic Notes in Discrete Mathematics</i> , 2018 , 69, 93-100	0.3	20
73	Virtual Savant for the Heterogeneous Computing Scheduling Problem 2018 ,		3
72	Multiobjective evolutionary algorithms for energy and service level scheduling in a federation of distributed datacenters. <i>International Transactions in Operational Research</i> , 2017 , 24, 199-228	2.9	14
71	Distributed Big Data Analysis for Mobility Estimation in Intelligent Transportation Systems. <i>Communications in Computer and Information Science</i> , 2017 , 146-160	0.3	5
70	Infrastructure Deployment in Vehicular Communication Networks Using a Parallel Multiobjective Evolutionary Algorithm. <i>International Journal of Intelligent Systems</i> , 2017 , 32, 801-829	8.4	15
69	Smart home energy planning using IoT and the cloud 2017 ,		13
68	Multiobjective Vehicle-type Scheduling in Urban Public Transport 2017 ,		4
67	Multiobjective Optimization of Greenhouse Gas Emissions Enhancing the Quality of Service for Urban Public Transport Timetabling 2017 ,		3
66	A distributed platform for big data analysis in smart cities: combining Intelligent Transportation Systems and socioeconomic data for Montevideo, Uruguay. <i>EAI Endorsed Transactions on Smart Cities</i> , 2017 , 2, 153478	1	21
65	Optimizing the Profit and QoS of Virtual Brokers in the Cloud. <i>Computer Communications and Networks</i> , 2017 , 277-300	0.5	2
64	Scheduling Algorithms for Distributed Cosmic Ray Detection Using Apache Mesos. <i>Communications in Computer and Information Science</i> , 2017 , 359-373	0.3	1
63	Penalty Scheduling Policy Applying User Estimates and Aging for Supercomputing Centers. <i>Communications in Computer and Information Science</i> , 2017 , 49-60	0.3	2
62	Communication-Aware Affinity Scheduling Heuristics in Multicore Systems. <i>Communications in Computer and Information Science</i> , 2017 , 33-48	0.3	
61	Evaluation of a Master-Slave Parallel Evolutionary Algorithm Applied to Artificial Intelligence for Games in the Xeon-Phi Many-Core Platform. <i>Communications in Computer and Information Science</i> , 2017 , 161-176	0.3	

60	Multiobjective evolutionary algorithms for the taxi sharing problem. <i>International Journal of Metaheuristics</i> , 2016 , 5, 67	0.8	3
59	A Parallel Multithreading Algorithm for Self-gravity Calculation on Agglomerates. <i>Communications in Computer and Information Science</i> , 2016 , 311-325	0.3	3
58	Scheduling Energy Efficient Data Centers Using Renewable Energy. <i>Electronics (Switzerland)</i> , 2016 , 5, 71	2.6	7
57	Efficient parallel evolutionary algorithms for deadline-constrained scheduling in project management. <i>International Journal of Innovative Computing and Applications</i> , 2016 , 7, 34	0.4	4
56	Online Bi-Objective Scheduling for IaaS Clouds Ensuring Quality of Service. <i>Journal of Grid Computing</i> , 2016 , 14, 5-22	4.2	30
55	Multiobjective Energy-Aware Workflow Scheduling in Distributed Datacenters. <i>Communications in Computer and Information Science</i> , 2016 , 79-93	0.3	2
54	2015 ,		4
53	Holistic multiobjective planning of datacenters powered by renewable energy. <i>Cluster Computing</i> , 2015 , 18, 1379-1397	2.1	14
52	An empirical time analysis of evolutionary algorithms as C programs. <i>Software - Practice and Experience</i> , 2015 , 45, 111-142	2.5	8
51	A parallel local search in CPU/GPU for scheduling independent tasks on large heterogeneous computing systems. <i>Journal of Supercomputing</i> , 2015 , 71, 648-672	2.5	18
50	Multiobjective scheduling of green-powered datacenters considering QoS and budget objectives 2015 ,		4
49	Smart placement of RSU for vehicular networks using multiobjective evolutionary algorithms 2015 ,		3
48	Efficient Heuristics for Profit Optimization of Virtual Cloud Brokers. <i>IEEE Computational Intelligence Magazine</i> , 2015 , 10, 33-43	5.6	23
47	Metaheuristics for the Virtual Machine Mapping Problem in Clouds. <i>Informatica</i> , 2015 , 26, 111-134	2.9	2
46	Using Metaheuristics as Soft Computing Techniques for Efficient Optimization 2015 , 7390-7399		3
45	Cloud Computing for Fluorescence Correlation Spectroscopy Simulations. <i>Communications in Computer and Information Science</i> , 2015 , 34-49	0.3	
44	High-Performance Computing of Self-Gravity for Small Solar System Bodies. <i>Computer</i> , 2014 , 47, 34-39	1.6	8
43	A hierarchical approach for energy-efficient scheduling of large workloads in multicore distributed systems. <i>Sustainable Computing: Informatics and Systems</i> , 2014 , 4, 252-261	3	19

42	Energy-aware online scheduling: Ensuring quality of service for IaaS clouds 2014 ,		12
41	Bi-objective online scheduling with quality of service for IaaS clouds 2014 ,		6
40	MAPREDUCE CHALLENGES ON PERVASIVE GRIDS. <i>Journal of Computer Science</i> , 2014 , 10, 2194-2210	0.5	8
39	Online taxi sharing optimization using evolutionary algorithms 2014 ,		2
38	An overview of metaheuristics: accurate and efficient methods for optimisation. <i>International Journal of Metaheuristics</i> , 2014 , 3, 320	0.8	140
37	Evolutionary algorithms for affinity scheduling heuristics in heterogeneous computing systems 2014 ,		1
36	Controlling datacenter power consumption while maintaining temperature and QoS levels 2014 ,		8
35	An Empirical Study of the Robustness of Energy-Aware Schedulers for High Performance Computing Systems under Uncertainty. <i>Communications in Computer and Information Science</i> , 2014 , 143-157	0.3	6
34	Efficient Fluorescence Microscopy Analysis over a Volunteer Grid/Cloud Infrastructure. <i>Communications in Computer and Information Science</i> , 2014 , 113-127	0.3	1
33	Multiobjective Energy-Aware Datacenter Planning Accounting for Power Consumption Profiles. <i>Communications in Computer and Information Science</i> , 2014 , 128-142	0.3	1
32	A Parallel Multilevel Data Decomposition Algorithm for Orientation Estimation of Unmanned Aerial Vehicles. <i>Communications in Computer and Information Science</i> , 2014 , 206-220	0.3	0
31	MBSPPDiscover: An Automatic Benchmark for MultiBSP Performance Analysis. <i>Communications in Computer and Information Science</i> , 2014 , 158-172	0.3	1
30	Parallel multiobjective evolutionary algorithms for batch scheduling in heterogeneous computing and grid systems. <i>Computational Optimization and Applications</i> , 2013 , 55, 515-544	1.4	9
29	Fast energy-aware OLSR routing in VANETs by means of a parallel evolutionary algorithm. <i>Cluster Computing</i> , 2013 , 16, 435-450	2.1	40
28	Energy-Aware Scheduling on Multicore Heterogeneous Grid Computing Systems. <i>Journal of Grid Computing</i> , 2013 , 11, 653-680	4.2	60
27	A Parallel Hybrid Evolutionary Algorithm for the Optimization of Broker Virtual Machines Subletting in Cloud Systems 2013 ,		8
26	Parallel metaheuristics: recent advances and new trends. <i>International Transactions in Operational Research</i> , 2013 , 20, 1-48	2.9	174
25	A Parallel Multi-objective Local Search for AEDB Protocol Tuning 2013 ,		3

24	PER-MARE: Adaptive Deployment of MapReduce over Pervasive Grids 2013 ,		8
23	Multiobjective grid scheduling using a domain decomposition based parallel micro evolutionary algorithm. <i>International Journal of Grid and Utility Computing</i> , 2013 , 4, 70	1.1	11
22	SCHEDULING IN HETEROGENEOUS COMPUTING AND GRID ENVIRONMENTS USING A PARALLEL CHC EVOLUTIONARY ALGORITHM. <i>Computational Intelligence</i> , 2012 , 28, 131-155	2.5	11
21	Evolutionary power-aware routing in VANETs using Monte-Carlo simulation 2012 ,		6
20	A Parallel Evolutionary Algorithm for Multilayered Robust Network Design 2012 ,		1
19	An Efficient Stochastic Local Search for Heterogeneous Computing Scheduling 2012 ,		3
18	Solving Very Large Optimization Problems (Up to One Billion Variables) with a Parallel Evolutionary Algorithm in CPU and GPU 2012 ,		4
17	Granular physics in low-gravity environments using discrete element method. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 420, 3368-3380	4.3	40
16	A parallel micro evolutionary algorithm for heterogeneous computing and grid scheduling. <i>Applied Soft Computing Journal</i> , 2012 , 12, 626-639	7.5	43
15	Parallel implementations of the MinMin heterogeneous computing scheduler in GPU. <i>CLEI Electronic Journal</i> , 2012 , 15,	0.6	5
14	Exploring the Accuracy of a Parallel Cooperative Model for Trajectory-Based Metaheuristics. <i>Lecture Notes in Computer Science</i> , 2012 , 319-326	0.9	1
13	A survey on parallel ant colony optimization. <i>Applied Soft Computing Journal</i> , 2011 , 11, 5181-5197	7.5	144
12	Time analysis of standard evolutionary algorithms as software programs 2011 ,		4
11	Multiobjective Scheduling on Distributed Heterogeneous Computing and Grid Environments Using a Parallel Micro-CHC Evolutionary Algorithm 2011 ,		1
10	Heterogeneous computing scheduling with evolutionary algorithms. <i>Soft Computing</i> , 2010 , 15, 685-701	3.5	30
9	Solving a Ring Star Problem Generalization 2008 ,		3
8	Evolutionary algorithms applied to reliable communication network design. <i>Engineering Optimization</i> , 2007 , 39, 831-855	2	7
7	Parallel Metaheuristics in Telecommunications 2005 , 495-515		

6	Non-intrusive energy disaggregation by detecting similarities in consumption patterns. <i>Revista Facultad De Ingeniería</i> ,	1	8
5	Electricity demand forecasting in industrial and residential facilities using ensemble machine learning. <i>Revista Facultad De Ingeniería</i> ,	1	5
4	Optimizing household energy planning in smart cities: A multiobjective approach. <i>Revista Facultad De Ingeniería</i> ,	1	4
3	Nature-Inspired Informatics for Telecommunication Network Design323-371		1
2	High-performance computing simulations of self-gravity in astronomical agglomerates. <i>Simulation</i> ,003754972199876	1.2	3
1	Simulation and evaluation of multicriteria planning heuristics for demand response in datacenters. <i>Simulation</i> ,003754972110200	1.2	3