

# Silvia Jim nez-Fern ndez

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,883  
citations

394286  
19  
h-index

276775  
41  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated care prevents hospitalisations for exacerbations in COPD patients. <i>European Respiratory Journal</i> , 2006, 28, 123-130.	3.1	414
2	Home hospitalisation of exacerbated chronic obstructive pulmonary disease patients. <i>European Respiratory Journal</i> , 2003, 21, 58-67.	3.1	221
3	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. <i>Energies</i> , 2015, 8, 9211-9265.	1.6	195
4	Telemedicine Experience for Chronic Care in COPD. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006, 10, 567-573.	3.6	164
5	A new grouping genetic algorithm for clustering problems. <i>Expert Systems With Applications</i> , 2012, 39, 9695-9703.	4.4	121
6	A novel Grouping Genetic Algorithm–Extreme Learning Machine approach for global solar radiation prediction from numerical weather models inputs. <i>Solar Energy</i> , 2016, 132, 129-142.	2.9	95
7	A Review of Classification Problems and Algorithms in Renewable Energy Applications. <i>Energies</i> , 2016, 9, 607.	1.6	87
8	Optimal discharge scheduling of energy storage systems in MicroGrids based on hyper-heuristics. <i>Renewable Energy</i> , 2015, 83, 13-24.	4.3	50
9	Team formation based on group technology: A hybrid grouping genetic algorithm approach. <i>Computers and Operations Research</i> , 2011, 38, 484-495.	2.4	44
10	A novel Coral Reefs Optimization algorithm with substrate layers for optimal battery scheduling optimization in micro-grids. <i>Soft Computing</i> , 2016, 20, 4287-4300.	2.1	39
11	An efficient multi-objective evolutionary approach for solving the operation of multi-reservoir system scheduling in hydro-power plants. <i>Expert Systems With Applications</i> , 2021, 185, 115638.	4.4	29
12	Very fast training neural-computation techniques for real measure-correlate-predict wind operations in wind farms. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 116, 49-60.	1.7	28
13	A CRO-species optimization scheme for robust global solar radiation statistical downscaling. <i>Renewable Energy</i> , 2017, 111, 63-76.	4.3	28
14	Usability and Interoperability in Wireless Sensor Networks for Patient Telemonitoring in Chronic Disease Management. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3331-3339.	2.5	27
15	Sizing and maintenance visits optimization of a hybrid photovoltaic-hydrogen stand-alone facility using evolutionary algorithms. <i>Renewable Energy</i> , 2014, 66, 402-413.	4.3	26
16	Implementation of an end-to-end standard-based patient monitoring solution. <i>IET Communications</i> , 2008, 2, 181.	1.5	22
17	Wind Power Ramp Events Prediction with Hybrid Machine Learning Regression Techniques and Reanalysis Data. <i>Energies</i> , 2017, 10, 1784.	1.6	22
18	Hydro-power production capacity prediction based on machine learning regression techniques. <i>Knowledge-Based Systems</i> , 2021, 222, 107012.	4.0	22

#	ARTICLE	IF	CITATIONS
19	Joint optimization of a Microgrid's structure design and its operation using a two-steps evolutionary algorithm. <i>Energy</i> , 2016, 94, 775-785.	4.5	20
20	Optimal design of Microgrid's network topology and location of the distributed renewable energy resources using the Harmony Search algorithm. <i>Soft Computing</i> , 2019, 23, 6495-6510.	2.1	17
21	Optimal Microgrid Topology Design and Siting of Distributed Generation Sources Using a Multi-Objective Substrate Layer Coral Reefs Optimization Algorithm. <i>Sustainability</i> , 2019, 11, 169.	1.6	17
22	Optimal Generation Scheduling in Hydro-Power Plants with the Coral Reefs Optimization Algorithm. <i>Energies</i> , 2021, 14, 2443.	1.6	17
23	Wind speed reconstruction from synoptic pressure patterns using an evolutionary algorithm. <i>Applied Energy</i> , 2012, 89, 347-354.	5.1	16
24	A Telemedicine System to Support a New Model for Care of Chronically Ill Patients. <i>Journal of Telemedicine and Telecare</i> , 2002, 8, 17-19.	1.4	14
25	A coral reef optimization algorithm for the optimal service distribution problem in mobile radio access networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2014, 25, 1057-1069.	2.6	14
26	An evolutionary-based hyper-heuristic approach for the Jawbreaker puzzle. <i>Applied Intelligence</i> , 2014, 40, 404-414.	3.3	14
27	Interoperability of a Mobile Health Care Solution with Electronic Healthcare Record Systems. , 2006, 2006, 5214-7.		13
28	Proposal of an ISO/IEEE11073 Platform for Healthcare Telemonitoring: Plug-and-Play Solution with new Use Cases. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 6710-13.	0.5	10
29	Adaptive nesting of evolutionary algorithms for the optimization of Microgrid's sizing and operation scheduling. <i>Soft Computing</i> , 2017, 21, 4845-4857.	2.1	10
30	Mobile network deployment under electromagnetic pollution control criterion: An evolutionary algorithm approach. <i>Expert Systems With Applications</i> , 2013, 40, 365-376.	4.4	9
31	2G/3G connect: An educational software for teaching 2G/3G mobile communications to engineering students. <i>Computer Applications in Engineering Education</i> , 2015, 23, 1-12.	2.2	9
32	Feature selection in solar radiation prediction using bootstrapped SVRs. , 2016, , .		9
33	A versatile multi-method ensemble for wind farm layout optimization. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 225, 104991.	1.7	9
34	Implementation Experience of a Patient Monitoring Solution based on End-to-End Standards. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 6426-9.	0.5	8
35	Solving terminal assignment problems with groups encoding: The wedding banquet problem. <i>Engineering Applications of Artificial Intelligence</i> , 2006, 19, 569-578.	4.3	7
36	Dynamic Electric Dispatch for Wind Power Plants: A New Automatic Controller System Using Evolutionary Algorithms. <i>Sustainability</i> , 2021, 13, 11924.	1.6	7

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37	A telemedicine system to support a new model for care of chronically ill patients. <i>Journal of Telemedicine and Telecare</i> , 2002, 8, 17-19.	1.4	6
38	Soft-Computing: An innovative technological solution for urban traffic-related problems in modern cities. <i>Technological Forecasting and Social Change</i> , 2014, 89, 236-244.	6.2	5
39	Optimal Location and Sizing of Energy Storage Systems in DC-Electrified Railway Lines Using a Coral Reefs Optimization Algorithm with Substrate Layers. <i>Energies</i> , 2021, 14, 4753.	1.6	4
40	An educational software tool to teach hyperheuristics to engineering students based on the bubble breaker puzzle. <i>Computer Applications in Engineering Education</i> , 2015, 23, 277-285.	2.2	3
41	Optimal placement of distributed generation in micro-grids with binary and integer-encoding evolutionary algorithms. , 2016, , .		3
42	A hybrid evolutionary programming approach for optimal worst case tolerance design of magnetic devices. <i>Applied Soft Computing Journal</i> , 2012, 12, 2425-2434.	4.1	2
43	Pattern Classification Applying Neighbourhood Component Analysis and Swarm Evolutionary Algorithms: A Coupled Methodology. , 2021, , .		2
44	A Hybrid Multiobjective Solution for the Short-term Hydro-power Dispatch Problem: a Swarm Evolutionary Approach. , 2021, , .		2
45	Impact of the HSPDA-Based Mobile Broadband Access on the Investment of the 3G Access Network. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012, , 303-311.	0.2	1
46	Extended Weighted ABC: A Robust Non-Linear ABC-Based Approach for Optimal Combination of ABC Path-Loss Propagation Models. <i>IEEE Access</i> , 2022, 10, 75219-75233.	2.6	1
47	Sizing a hybrid photovoltaic-hydrogen system for remote telecommunication stand-alone facilities using evolutionary algorithms. , 2011, , .		0
48	Nested evolutionary algorithms for joint structure design and operation of micro-grids under variable electricity prices scenarios. , 2015, , .		0
49	Evolutionary Battery Scheduling Optimization Under Variable Electricity Prices in Micro-Grids with Renewable Generation. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 133-142.	0.5	0
50	PERSEIA: a Biomedical Wireless Sensor Network to Support Healthcare Delivery for the Elderly and Chronically Ill. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0