Silvio J P S Mariano

List of Publications by Year
in descending order

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89 papers	1,812 citations	361413 20 h-index	289244 40 g-index
90 all docs	90 docs citations	90 times ranked	1527 citing authors

#	Article	IF	Citations
1	A New Charging Algorithm for Li-Ion Battery Packs Based on Artificial Neural Networks. Batteries, 2022, 8, 18.	4.5	4
2	Ocean wave energy forecasting using optimised deep learning neural networks. Ocean Engineering, 2021, 219, 108372.	4.3	62
3	Suitable mathematical model for the electrical characterization of different photovoltaic technologies: Experimental validation. Energy Conversion and Management, 2021, 231, 113820.	9.2	10
4	Ocean wave power forecasting using convolutional neural networks. IET Renewable Power Generation, 2021, 15, 3341-3353.	3.1	8
5	Impacts of the COVID-19 pandemic on electric energy load and pricing in the Iberian electricity market. Energy Reports, 2021, 7, 4833-4849.	5.1	24
6	Stacking Ensemble Methodology Using Deep Learning and ARIMA Models for Short-Term Load Forecasting. Energies, 2021, 14, 7378.	3.1	20
7	Multi-Flexibility Option Integration to Cope With Large-Scale Integration of Renewables. IEEE Transactions on Sustainable Energy, 2020, 11, 48-60.	8.8	38
8	High-Grade Position Control of a Linear Switched Reluctance Actuator based in Direct Instantaneous Force Control. , 2020, , .		0
9	Electromagnetic design method for a TLSRG with application in ocean wave energy conversion. International Journal of Electrical Power and Energy Systems, 2020, 121, 106097.	5.5	5
10	A Novel Lagrangian Multiplier Update Algorithm for Short-Term Hydro-Thermal Coordination. Energies, 2020, 13, 6621.	3.1	4
11	Proportional Resonant Current Control and Output-Filter Design Optimization for Grid-Tied Inverters Using Grey Wolf Optimizer. Energies, 2020, 13, 1923.	3.1	8
12	Multiswarm spiral leader particle swarm optimisation algorithm for PV parameter identification. Energy Conversion and Management, 2020, 225, 113388.	9.2	39
13	Enhanced Methodologies in Photovoltaic Production with Energy Storage Systems Integrating Multi-cell Lithium-Ion Batteries. Studies in Computational Intelligence, 2020, , 247-274.	0.9	0
14	Demand Response-Based Operation Model in Electricity Markets With High Wind Power Penetration. IEEE Transactions on Sustainable Energy, 2019, 10, 918-930.	8.8	31
15	Multi-Objective Market Clearing Model with an Autonomous Demand Response Scheme. Energies, 2019, 12, 1261.	3.1	1
16	Optimization of neural network with wavelet transform and improved data selection using bat algorithm for short-term load forecasting. Neurocomputing, 2019, 358, 53-71.	5.9	66
17	Daily Operation Optimization of a Hybrid Energy System Considering a Short-Term Electricity Price Forecast Scheme. Energies, 2019, 12, 924.	3.1	11
18	Collaborative swarm intelligence to estimate PV parameters. Energy Conversion and Management, 2019, 185, 866-890.	9.2	89

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19	Power Management Control Strategy Based on Artificial Neural Networks for Standalone PV Applications with a Hybrid Energy Storage System. Energies, 2019, 12, 902.	3.1	38
20	A bat optimized neural network and wavelet transform approach for short-term price forecasting. Applied Energy, 2018, 210, 88-97.	10.1	97
21	A new high performance method for determining the parameters of PV cells and modules based on guaranteed convergence particle swarm optimization. Applied Energy, 2018, 211, 774-791.	10.1	187
22	Position Control of Linear Switched Reluctance Machine using Flower Pollination Algorithm. , 2018, , .		2
23	Short-Term Load Forecasting using optimized LSTM Networks via Improved Bat Algorithm. , 2018, , .		9
24	Design and Implementation of MPPT System Based on PSO Algorithm. , 2018, , .		20
25	Lookup Table Based Intelligent Charging and Balancing Algorithm for Li-ion Battery Packs. , 2018, , .		2
26	Prospects of a Meshed Electrical Distribution System Featuring Large-Scale Variable Renewable Power. Energies, 2018, 11, 3399.	3.1	12
27	Daily Operation Optimization for Grid-Connected Hybrid System Considering Short-Term Electricity Price Forecast Scheme. , 2018, , .		2
28	A Modified Multidimension Diode Model for PV Parameters Identification Using Guaranteed Convergence Particle Swarm Optimization Algorithm. , 2018, , .		0
29	Power Management Strategy for Standalone PV Applications with Hybrid Energy Storage System. , 2018, , .		1
30	A New Approach for Dynamic Energy Storage System. , 2018, , .		0
31	Maximum Power Point Tracking for a Point Absorber Device with a Tubular Linear Switched Reluctance Generator. Energies, 2018, 11, 2192.	3.1	11
32	Glowworm Swarm Optimization for photovoltaic model identification. , 2017, , .		2
33	A new controller for DC-DC converters based on particle swarm optimization. Applied Soft Computing Journal, 2017, 52, 418-434.	7.2	27
34	Particle Swarm Optimization for photovoltaic model identification. , 2017, , .		3
35	Management System for Large Li-Ion Battery Packs with a New Adaptive Multistage Charging Method. Energies, 2017, 10, 605.	3.1	19
36	Impact of Rural Grid-Connected Photovoltaic Generation Systems on Power Quality. Energies, 2016, 9, 739.	3.1	22

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37	Damping of Power System Oscillations with Optimal Regulator. Energy Systems, 2016, , 173-198.	0.5	2
38	Balancing management system for improving Li-ion batteries capacity usage and lifespan. , 2016, , .		7
39	PV charging station for electric vehicles: Management and interface system. , 2016, , .		0
40	Blueberries field irrigation management and monitoring system using PLC based control and wireless sensor network. , 2016, , .		3
41	Experimental force characterization of linear switched reluctance machine. , 2016, , .		5
42	Particle swarm and Box×³s complex optimization methods to design linear tubular switched reluctance generators for wave energy conversion. Swarm and Evolutionary Computation, 2016, 28, 29-41.	8.1	10
43	Using finite element method based software to teach electrical machinesâ€"The linear switched reluctance actuator. Computer Applications in Engineering Education, 2015, 23, 824-836.	3.4	3
44	Power Quality Experimental Analysis on Rural Home Grid-Connected PV Systems. International Journal of Photoenergy, 2015, 2015, 1-8.	2.5	10
45	Optimal Hydro-Wind Power Generation for Day-Ahead Pool Market. IEEE Latin America Transactions, 2015, 13, 2630-2636.	1.6	2
46	Micro-generation with solar energy: Power qualtity and impact on a rural low-voltage grid. , 2015, , .		3
47	Evaluation of a particle swarm optimization controller for dc-dc boost converters. , 2015, , .		3
48	An electric vehicle charging station: Monitoring and analysis of power quality. , 2015, , .		20
49	Direct Instantaneous Thrust Control optimization of a linear switched reluctance actuator by Pulse-width modulation duty ratio adjustment. , 2014, , .		5
50	Sustainable energy systems: Mini-production with solar photovoltaic energy in Portugal. , 2013, , .		0
51	Performance analysis of linear switched reluctance generator for different teeth shapes. The generation quality factor. , 2013, , .		1
52	Power system stabilizer design based on output optimal control techniques. , 2013, , .		0
53	Design of a new linear generator for wave energy conversion based on analytical and numerical analyses. Journal of Renewable and Sustainable Energy, 2012, 4, 033117.	2.0	13
54	Direct instantaneous thrust control of 3 phase linear switched reluctance actuator. , 2012, , .		6

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55	Nonlinear head-sensitive hydroelectric generation scheduling in competitive electricity market. , 2012, , .		1
56	Wave energy potential in Portugalâ€“Assessment based on probabilistic description of ocean waves parameters. Renewable Energy, 2012, 47, 1-8.	8.9	29
57	Design and numerical analysis of a new linear generator for wave energy conversion. , 2011, , .		1
58	A Simulink nonlinear model for LSRA control scheme analysis. , 2011, , .		0
59	Design of a tubular switched reluctance linear generator for wave energy conversion based on ocean wave parameters. , 2011, , .		6
60	Damping of power system oscillations with optimal regulator. , 2011, , .		1
61	Nonlinear optimization method for shortâ€term hydro scheduling considering headâ€dependency. European Transactions on Electrical Power, 2010, 20, 172-183.	1.0	19
62	A practical approach for profit-based unit commitment with emission limitations. International Journal of Electrical Power and Energy Systems, 2010, 32, 218-224.	5.5	56
63	Pole-shifting procedure to specify the weighting matrices for a load-frequency controller. , 2010, , .		2
64	Optimal response of a hydroelectric power plant with bilateral contracts. , 2010, , .		1
65	Determination of the Earth Fault Factor in Power Systems for Different Earthed Neutrals. IEEE Latin America Transactions, 2010, 8, 637-645.	1.6	6
66	Determination of the Earth Fault Factor in Power Systems For Different Earthed Neutrals. Renewable Energy and Power Quality Journal, 2010, 1, 1476-1481.	0.2	0
67	Profit-Based Optimal Operation of a Head-Dependent Hydroelectric Power Station in the Bilateral Market. Renewable Energy and Power Quality Journal, 2010, 1, 1482-1487.	0.2	1
68	Power house I/O curves considering head dependency. , 2009, , .		3
69	Unit Commitment in a Competitive and Emission Constrained Environment. IEEE Latin America Transactions, 2009, 7, 560-568.	1.6	4
70	Dispatch of Head Dependent Hydro Units: Modeling for optimal generation in electricity market. , 2009, , .		6
71	Scheduling of Head-Sensitive Cascaded Hydro Systems: A Nonlinear Approach. IEEE Transactions on Power Systems, 2009, 24, 337-346.	6.5	148
72	Characterization of a new linear switched reluctance actuator. , 2009, , .		8

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73	Optimal output control: Load frequency control of a large power system. , 2009, , .		9
74	Short-term scheduling of thermal units: emission constraints and trade-off curves. European Transactions on Electrical Power, 2008, 18, 1-14.	1.0	48
75	Optimising power generation efficiency for head-sensitive cascaded reservoirs in a competitive electricity market. International Journal of Electrical Power and Energy Systems, 2008, 30, 125-133.	5.5	27
76	Optimal control: Load frequency control of a large power system. , 2008, , .		9
77	SCHEDULING OF HEAD-SENSITIVE CASCADED HYDRO SYSTEMS: A COMPARISON BASED ON NUMERICAL SIMULATION RESULTS. International Journal of Power and Energy Systems, 2008, 28, .	0.2	4
78	Profit-Based Short-Term Hydro Scheduling considering Head-Dependent Power Generation. , 2007, , .		15
79	Profit-Based Unit Commitment with Emission Limitations: A Multiobjective Approach. , 2007, , .		13
80	An Artificial Neural Network Approach for Short-Term Electricity Prices Forecasting. , 2007, , .		20
81	Short-term electricity prices forecasting in a competitive market: A neural network approach. Electric Power Systems Research, 2007, 77, 1297-1304.	3.6	333
82	Application of Neural Networks on Next-Day Electricity Prices Forecasting. , 2006, , .		5
83	Parameterisation effect on the behaviour of a head-dependent hydro chain using a nonlinear model. Electric Power Systems Research, 2006, 76, 404-412.	3.6	50
84	Overview of Economic and Environmental Policy Issues Affecting Thermal Power Systems Operational Planning Under Deregulation. , 2006, , .		1
85	Nonlinear approach for short-term scheduling of a head-sensitive hydro chain. , 2005, , .		4
86	Restructuring models-a comparison based on numerical simulation results. , 0, , .		4
87	Production scheduling: regulation or deregulation-back to a theoretical basis. , 0, , .		5
88	The IEEE Model for a Ground Rod in a Two Layer Soil â€“ A FEM Approach. , 0, , .		1
89	A procedure to specify the weighting matrices for an optimal load-frequency controller. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	1.4	5