

Ganesh Kumar Venayagamoorthy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8691222/publications.pdf>

Version: 2024-02-01

335
papers

12,737
citations

44069

48
h-index

32842

100
g-index

339
all docs

339
docs citations

339
times ranked

9144
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Swarm Optimization: Basic Concepts, Variants and Applications in Power Systems. IEEE Transactions on Evolutionary Computation, 2008, 12, 171-195.	10.0	1,893
2	Plug-in Vehicles and Renewable Energy Sources for Cost and Emission Reductions. IEEE Transactions on Industrial Electronics, 2011, 58, 1229-1238.	7.9	681
3	Computational Intelligence in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2011, 13, 68-96.	39.4	559
4	Particle Swarm Optimization in Wireless-Sensor Networks: A Brief Survey. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 262-267.	2.9	558
5	Review of Internet of Things (IoT) in Electric Power and Energy Systems. IEEE Internet of Things Journal, 2018, 5, 847-870.	8.7	460
6	Real-Time Implementation of a STATCOM on a Wind Farm Equipped With Doubly Fed Induction Generators. IEEE Transactions on Industry Applications, 2009, 45, 98-107.	4.9	279
7	Intelligent unit commitment with vehicle-to-grid "A cost-emission optimization. Journal of Power Sources, 2010, 195, 898-911.	7.8	266
8	Resource Scheduling Under Uncertainty in a Smart Grid With Renewables and Plug-in Vehicles. IEEE Systems Journal, 2012, 6, 103-109.	4.6	252
9	Dynamic Energy Management System for a Smart Microgrid. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1643-1656.	11.3	234
10	Comparison of heuristic dynamic programming and dual heuristic programming adaptive critics for neurocontrol of a turbogenerator. IEEE Transactions on Neural Networks, 2002, 13, 764-773.	4.2	192
11	Recognition of facial expressions using Gabor wavelets and learning vector quantization. Engineering Applications of Artificial Intelligence, 2008, 21, 1056-1064.	8.1	175
12	Bio-inspired Algorithms for Autonomous Deployment and Localization of Sensor Nodes. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 663-675.	2.9	169
13	Multiple Reference Frame-Based Control of Three-Phase PWM Boost Rectifiers under Unbalanced and Distorted Input Conditions. IEEE Transactions on Power Electronics, 2008, 23, 2006-2017.	7.9	167
14	Coordinated Reactive Power Control of a Large Wind Farm and a STATCOM Using Heuristic Dynamic Programming. IEEE Transactions on Energy Conversion, 2009, 24, 493-503.	5.2	166
15	Efficient Utilization of Renewable Energy Sources by Gridable Vehicles in Cyber-Physical Energy Systems. IEEE Systems Journal, 2010, 4, 285-294.	4.6	166
16	Intelligent Scheduling of Hybrid and Electric Vehicle Storage Capacity in a Parking Lot for Profit Maximization in Grid Power Transactions. , 2008, , .		153
17	Intelligent Local Area Signals Based Damping of Power System Oscillations Using Virtual Generators and Approximate Dynamic Programming. IEEE Transactions on Smart Grid, 2013, 4, 498-508.	9.0	139
18	Wide-Area Measurement Based Dynamic Stochastic Optimal Power Flow Control for Smart Grids With High Variability and Uncertainty. IEEE Transactions on Smart Grid, 2012, 3, 59-69.	9.0	133

#	ARTICLE	IF	CITATIONS
19	Time series prediction with recurrent neural networks trained by a hybrid PSO+EA algorithm. Neurocomputing, 2007, 70, 2342-2353.	5.9	131
20	Bio-Inspired Algorithms for the Design of Multiple Optimal Power System Stabilizers: SPPSO and BFA. IEEE Transactions on Industry Applications, 2008, 44, 1445-1457.	4.9	127
21	Dual heuristic programming excitation neurocontrol for generators in a multimachine power system. IEEE Transactions on Industry Applications, 2003, 39, 382-394.	4.9	118
22	Effects of variable solar irradiance on the reactive power compensation for large solar farm. , 2010, , .		113
23	Modeling of gene regulatory networks with hybrid differential evolution and particle swarm optimization. Neural Networks, 2007, 20, 917-927.	5.9	110
24	Effects of spectral radius and settling time in the performance of echo state networks. Neural Networks, 2009, 22, 861-863.	5.9	107
25	Particle swarm optimization with quantum infusion for system identification. Engineering Applications of Artificial Intelligence, 2010, 23, 635-649.	8.1	107
26	Differential evolution particle swarm optimization for digital filter design. , 2008, , .		103
27	A Mean-Variance Optimization algorithm. , 2010, , .		103
28	Wide area control for improving stability of a power system with plug-in electric vehicles. IET Generation, Transmission and Distribution, 2010, 4, 1151.	2.5	101
29	Dynamic, Stochastic, Computational, and Scalable Technologies for Smart Grids. IEEE Computational Intelligence Magazine, 2011, 6, 22-35.	3.2	95
30	An Adaptive Control Strategy for DSTATCOM Applications in an Electric Ship Power System. IEEE Transactions on Power Electronics, 2010, 25, 95-104.	7.9	93
31	Optimization of vehicle-to-grid scheduling in constrained parking lots. , 2009, , .		92
32	Bio-inspired node localization in wireless sensor networks. , 2009, , .		90
33	Implementation of adaptive critic-based neurocontrollers for turbogenerators in a multimachine power system. IEEE Transactions on Neural Networks, 2003, 14, 1047-1064.	4.2	88
34	Energy dispatch controllers for a photovoltaic system. Engineering Applications of Artificial Intelligence, 2010, 23, 249-261.	8.1	85
35	A Proportional-Integrator Type Adaptive Critic Design-Based Neurocontroller for a Static Compensator in a Multimachine Power System. IEEE Transactions on Industrial Electronics, 2007, 54, 86-96.	7.9	83
36	Human swarm interaction for radiation source search and localization. , 2008, , .		79

#	ARTICLE	IF	CITATIONS
37	A continually online trained neurocontroller for excitation and turbine control of a turbogenerator. IEEE Transactions on Energy Conversion, 2001, 16, 261-269.	5.2	73
38	Real-time implementation of a measurement-based adaptive wide-area control system considering communication delays. IET Generation, Transmission and Distribution, 2008, 2, 62.	2.5	71
39	One million plug-in electric vehicles on the road by 2015. , 2009, , .		69
40	Two-Stage Stochastic Model Using Bendersâ€™™ Decomposition for Large-Scale Energy Resource Management in Smart Grids. IEEE Transactions on Industry Applications, 2017, 53, 5905-5914.	4.9	67
41	Optimal generator maintenance scheduling using a modified discrete PSO. IET Generation, Transmission and Distribution, 2008, 2, 834.	2.5	66
42	Wide-Area Signal-Based Optimal Neurocontroller for a UPFC. IEEE Transactions on Power Delivery, 2008, 23, 1597-1605.	4.3	65
43	Comparison of feedforward and feedback neural network architectures for short term wind speed prediction. , 2009, , .		65
44	Unit commitment with vehicle-to-Grid using particle swarm optimization. , 2009, , .		65
45	Adaptive-critic-based optimal neurocontrol for synchronous generators in a power system using MLP/RBF neural networks. IEEE Transactions on Industry Applications, 2003, 39, 1529-1540.	4.9	64
46	SmartPark as a Virtual STATCOM. IEEE Transactions on Smart Grid, 2011, 2, 445-455.	9.0	64
47	MLP/RBF Neural-Networks-Based Online Global Model Identification of Synchronous Generator. IEEE Transactions on Industrial Electronics, 2005, 52, 1685-1695.	7.9	63
48	Optimal Wide Area Controller and State Predictor for a Power System. IEEE Transactions on Power Systems, 2007, 22, 693-705.	6.5	61
49	Online design of an echo state network based wide area monitor for a multimachine power system. Neural Networks, 2007, 20, 404-413.	5.9	61
50	Comparison of Adaptive Critic-Based and Classical Wide-Area Controllers for Power Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 1002-1007.	5.0	61
51	Adaptive Critic Design Based Neuro-Fuzzy Controller for a Static Compensator in a Multimachine Power System. IEEE Transactions on Power Systems, 2006, 21, 1744-1754.	6.5	59
52	Optimal maintenance scheduling of generators using multiple swarms-MDPSO framework. Engineering Applications of Artificial Intelligence, 2010, 23, 895-910.	8.1	59
53	Neural Network Based Method for Predicting Nonlinear Load Harmonics. IEEE Transactions on Power Electronics, 2007, 22, 1036-1045.	7.9	58
54	EVOLVING DIGITAL CIRCUITS USING HYBRID PARTICLE SWARM OPTIMIZATION AND DIFFERENTIAL EVOLUTION. International Journal of Neural Systems, 2006, 16, 163-177.	5.2	57

#	ARTICLE	IF	CITATIONS
55	Neural network based secure media access control protocol for wireless sensor networks. , 2009, , .		53
56	Two separate continually online-trained neurocontrollers for excitation and turbine control of a turbogenerator. IEEE Transactions on Industry Applications, 2002, 38, 887-893.	4.9	52
57	Design of an adaptive neural network based power system stabilizer. Neural Networks, 2003, 16, 891-898.	5.9	52
58	Denial of Service Attack on Tie-Line Bias Control in a Power System With PV Plant. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 375-390.	4.9	51
59	A Heuristic-Dynamic-Programming-Based Power System Stabilizer for a Turbogenerator in a Single-Machine Power System. IEEE Transactions on Industry Applications, 2005, 41, 1377-1385.	4.9	50
60	Potentials and promises of computational intelligence for smart grids. , 2009, , .		48
61	Real-time modeling of distributed plug-in vehicles for V2G transactions. , 2009, , .		48
62	One Step Ahead: Short-Term Wind Power Forecasting and Intelligent Predictive Control Based on Data Analytics. IEEE Power and Energy Magazine, 2012, 10, 70-78.	1.6	48
63	SmartPark placement and operation for improving system reliability and market participation. Electric Power Systems Research, 2015, 123, 21-30.	3.6	45
64	Development of an IoT-Driven Building Environment for Prediction of Electric Energy Consumption. IEEE Internet of Things Journal, 2020, 7, 4912-4921.	8.7	44
65	Seven-Level Shunt Active Power Filter for High-Power Drive Systems. IEEE Transactions on Power Electronics, 2009, 24, 6-13.	7.9	42
66	A survey of electric power synchrophasor network cyber security. , 2014, , .		42
67	Effects of FACTS Devices on a Power System Which Includes a Large Wind Farm. , 2006, , .		41
68	RNN based MIMO channel prediction. Signal Processing, 2010, 90, 440-450.	3.7	39
69	Implementation of an Intelligent Reconfiguration Algorithm for an Electric Ship's Power System. IEEE Transactions on Industry Applications, 2011, 47, 2292-2300.	4.9	39
70	Dynamic Modeling of Wind Farms with Fixed-Speed Wind Turbine Generators. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	37
71	Two-Level Dynamic Stochastic Optimal Power Flow Control for Power Systems With Intermittent Renewable Generation. IEEE Transactions on Power Systems, 2013, 28, 2670-2678.	6.5	35
72	Quantum inspired PSO for the optimization of simultaneous recurrent neural networks as MIMO learning systems. Neural Networks, 2010, 23, 583-586.	5.9	34

#	ARTICLE	IF	CITATIONS
73	Collective robotic search using hybrid techniques: Fuzzy logic and swarm intelligence inspired by nature. Engineering Applications of Artificial Intelligence, 2009, 22, 431-441.	8.1	33
74	Energy dispatch fuzzy controller for a grid-independent photovoltaic system. Energy Conversion and Management, 2010, 51, 928-937.	9.2	33
75	New External Neuro-Controller for Series Capacitive Reactance Compensator in a Power Network. IEEE Transactions on Power Systems, 2004, 19, 1462-1472.	6.5	32
76	Fully Evolvable Optimal Neurofuzzy Controller Using Adaptive Critic Designs. IEEE Transactions on Fuzzy Systems, 2008, 16, 1450-1461.	9.8	32
77	Optimal wide-area monitoring and nonlinear adaptive coordinating neurocontrol of a power system with wind power integration and multiple FACTS devices. Neural Networks, 2008, 21, 466-475.	5.9	31
78	Recurrent Neural Networks Based Impedance Measurement Technique for Power Electronic Systems. IEEE Transactions on Power Electronics, 2010, 25, 382-390.	7.9	31
79	Missing-Sensor-Fault-Tolerant Control for SSSC FACTS Device With Real-Time Implementation. IEEE Transactions on Power Delivery, 2009, 24, 740-750.	4.3	30
80	Decentralized Asynchronous Learning in Cellular Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1755-1766.	11.3	30
81	Optimal Neuro-Fuzzy External Controller for a STATCOM in the 12-Bus Benchmark Power System. IEEE Transactions on Power Delivery, 2007, 22, 2548-2558.	4.3	29
82	SmartPark Shock Absorbers for Wind Farms. IEEE Transactions on Energy Conversion, 2011, 26, 990-992.	5.2	29
83	Two Separate Continually Online-Trained Neurocontrollers for a Unified Power Flow Controller. IEEE Transactions on Industry Applications, 2005, 41, 906-916.	4.9	28
84	Hardware Implementation of a Mamdani Fuzzy Logic Controller for a Static Compensator in a Multimachine Power System. IEEE Transactions on Industry Applications, 2009, 45, 1535-1544.	4.9	28
85	Modeling and simulation of hybrid distributed generation and its impact on transient stability of power system. , 2013, , .		27
86	Cellular computational networksâ€”A scalable architecture for learning the dynamics of large networked systems. Neural Networks, 2014, 50, 120-123.	5.9	27
87	Computational Intelligence-Based Demand Response Management in a Microgrid. IEEE Transactions on Industry Applications, 2019, 55, 732-740.	4.9	27
88	Optimal SVM switching for a multilevel multi-phase machine using modified discrete PSO. , 2008, , .		26
89	Intelligent Tool for Determining the True Harmonic Current Contribution of a Customer in a Power Distribution Network. IEEE Transactions on Industry Applications, 2008, 44, 1477-1485.	4.9	26
90	Cyber security in smart DC microgrid operations. , 2015, , .		26

#	ARTICLE	IF	CITATIONS
91	A Computational Approach to Optimal Damping Controller Design for a GCSC. IEEE Transactions on Power Delivery, 2008, 23, 1673-1681.	4.3	25
92	Effects of learning rate on the performance of the population based incremental learning algorithm. , 2009, , .		24
93	Quantum-Inspired Evolutionary Algorithms and Binary Particle Swarm Optimization for Training MLP and SRN Neural Networks. Journal of Computational and Theoretical Nanoscience, 2005, 2, 561-568.	0.4	23
94	AIS-Based Coordinated and Adaptive Control of Generator Excitation Systems for an Electric Ship. IEEE Transactions on Industrial Electronics, 2012, 59, 3102-3112.	7.9	23
95	Reservoir based learning network for control of two-area power system with variable renewable generation. Neurocomputing, 2015, 170, 428-438.	5.9	23
96	Organization-based Multi-Agent structure of the Smart Home Electricity System. , 2017, , .		23
97	Short to Medium Range Time Series Prediction of Solar Irradiance Using an Echo State Network. , 2009, , .		22
98	Development of Optimal PI Controllers for a Grid-Tied Photovoltaic Inverter. , 2015, , .		22
99	Hybrid double flying capacitor multicell converter and its application in grid-tied renewable energy resources. IET Generation, Transmission and Distribution, 2015, 9, 947-956.	2.5	22
100	Indirect Adaptive Control for Synchronous Generator: Comparison of MLP/RBF Neural Networks Approach With Lyapunov Stability Analysis. IEEE Transactions on Neural Networks, 2004, 15, 460-464.	4.2	21
101	Particle Swarm Optimization with Quantum Infusion for the design of digital filters. , 2008, , .		21
102	Comparison of Nonuniform Optimal Quantizer Designs for Speech Coding With Adaptive Critics and Particle Swarm. IEEE Transactions on Industry Applications, 2007, 43, 238-244.	4.9	20
103	DHP-Based Wide-Area Coordinating Control of a Power System with a Large Wind Farm and Multiple FACTS Devices. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	20
104	New Power Quality Index in a Distribution Power System by Using RMP Model. IEEE Transactions on Industry Applications, 2010, 46, 1204-1211.	4.9	20
105	Optimal location and sizing of energy storage modules for a smart electric ship power system. , 2011, , .		20
106	Frequency stability and control of a power system with large PV plants using PMU information. , 2013, , .		20
107	A Fuzzy-PSO Based Controller for a Grid Independent Photovoltaic System. , 2007, , .		19
108	Dual-Function Neuron-Based External Controller for a Static Var Compensator. IEEE Transactions on Power Delivery, 2008, 23, 997-1006.	4.3	19

#	ARTICLE	IF	CITATIONS
109	Damping inter-area oscillations using virtual generator based power system stabilizer. Electric Power Systems Research, 2015, 129, 126-141.	3.6	19
110	An Exponential Moving Average algorithm. , 2012, , .		18
111	Navigating the challenges of Internet of Things (IoT) for power and energy systems. , 2016, , .		18
112	Combined Training of Recurrent Neural Networks with Particle Swarm Optimization and Backpropagation Algorithms for Impedance Identification. , 2007, , .		17
113	Collaborative Routing Algorithm for Wireless Sensor Network Longevity. , 2007, , .		17
114	Dual heuristic programming based nonlinear optimal control for a synchronous generator. Engineering Applications of Artificial Intelligence, 2008, 21, 97-105.	8.1	17
115	Fault-Tolerant Indirect Adaptive Neurocontrol for a Static Synchronous Series Compensator in a Power Network With Missing Sensor Measurements. IEEE Transactions on Neural Networks, 2008, 19, 1179-1195.	4.2	17
116	Generalized neuron: Feedforward and recurrent architectures. Neural Networks, 2009, 22, 1011-1017.	5.9	17
117	Comparison of Enhanced-PSO and Classical Optimization Methods: A Case Study for STATCOM Placement. , 2009, , .		17
118	Computational approach to enhance performance of photovoltaic system inverters interfaced to utility grids. IET Renewable Power Generation, 2018, 12, 112-124.	3.1	17
119	Comparison of a spiking neural network and an MLP for robust identification of generator dynamics in a multimachine power system. Neural Networks, 2009, 22, 833-841.	5.9	16
120	Particle swarm optimization of high-frequency transformer. , 2010, , .		16
121	Adaptive Power System Stabilizers Using Artificial Immune System. , 2007, , .		15
122	Robust neuro-identification of nonlinear plants in electric power systems with missing sensor measurements. Engineering Applications of Artificial Intelligence, 2008, 21, 604-618.	8.1	15
123	Fault-Tolerant Optimal Neurocontrol for a Static Synchronous Series Compensator Connected to a Power Network. IEEE Transactions on Industry Applications, 2008, 44, 74-84.	4.9	15
124	MIMO beam-forming with neural network channel prediction trained by a novel PSO-EA-DEPSO algorithm. , 2008, , .		15
125	Comparative Study of Population Based Techniques for Power System Stabilizer Design. , 2009, , .		15
126	Evolutionary swarm neural network game engine for Capture Go. Neural Networks, 2010, 23, 295-305.	5.9	15

#	ARTICLE	IF	CITATIONS
127	On-line voltage stability load index estimation based on PMU measurements. , 2011, , .		15
128	New internal optimal neurocontrol for a series FACTS device in a power transmission line. Neural Networks, 2003, 16, 881-890.	5.9	14
129	Comparison of Two Optimal Control Strategies for a Grid Independent Photovoltaic System. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	14
130	Power System Control With an Embedded Neural Network in Hybrid System Modeling. IEEE Transactions on Industry Applications, 2008, 44, 1458-1465.	4.9	14
131	Economic load dispatch using bacterial foraging technique with particle swarm optimization biased evolution. , 2008, , .		14
132	Development of optimal controllers for a DFIG based wind farm in a smart grid under variable wind speed conditions. , 2011, , .		14
133	Emerging role of photovoltaics for sustainably powering underdeveloped, emerging, and developed economies. , 2014, , .		14
134	Comparison of Adaptive Neuro-Fuzzy Inference Systems and Echo State Networks for PV Power Prediction. Procedia Computer Science, 2015, 53, 92-102.	2.0	14
135	Model of a hybrid distributed generation system for a DC nano-grid. , 2016, , .		14
136	A Novel Impedance Measurement Technique for Power Electronic Systems. , 2007, , .		13
137	Network-centric localization in MANETs based on particle swarm optimization. , 2008, , .		13
138	Intelligent Coordinated Control of a Wind Farm and Distributed Smartparks. , 2010, , .		13
139	Characterization and modeling of a grid-connected photovoltaic system using a Recurrent Neural Network. , 2011, , .		13
140	Internet of Things (IoT) sensors for smart home electric energy usage management. , 2016, , .		13
141	Adaptive inter-area oscillation damping controller for multi-machine power systems. Electric Power Systems Research, 2016, 134, 105-113.	3.6	13
142	Optimal automatic generation controllers in a multi-area interconnected power system with utility-scale PV plants. IET Smart Grid, 2019, 2, 581-593.	2.2	13
143	Edge Computing and Adaptive Fault-Tolerant Tracking Control Algorithm for Smart Buildings: A Case Study. Cybernetics and Systems, 2020, 51, 685-697.	2.5	13
144	Synchronous Reference Frame Based Active Filter Current Reference Generation Using Neural Networks. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	12

#	ARTICLE	IF	CITATIONS
145	Particle swarm-based optimal partitioning algorithm for combinational CMOS circuits. Engineering Applications of Artificial Intelligence, 2007, 20, 177-184.	8.1	12
146	Real-Time Implementation of Intelligent Modeling and Control Techniques on a PLC Platform. , 2008, , .		12
147	Estimation of voltage stability index in a power system with Plug-in Electric Vehicles. , 2010, , .		12
148	Adaptive critic design based dynamic optimal power flow controller for a smart grid. , 2011, , .		12
149	Comparison of a recurrent neural network PV system model with a traditional component-based PV system model. , 2011, , .		12
150	Intelligent sense-making for smart grid stability. , 2011, , .		12
151	Hardware Implementation of an AIS-Based Optimal Excitation Controller for an Electric Ship. IEEE Transactions on Industry Applications, 2011, 47, 1060-1070.	4.9	12
152	Comparison of echo state network and extreme learning machine for PV power prediction. , 2014, , .		12
153	Real-Time Implementation of a STATCOM on a Wind Farm Equipped with Doubly Fed Induction Generators. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	11
154	Neural Network Based Decentralized Controls of Large Scale Power Systems. , 2007, , .		11
155	Advances in neural networks research: An introduction. Neural Networks, 2009, 22, 489-490.	5.9	11
156	An Introduction to the Echo State Network and its Applications in Power System. , 2009, , .		11
157	Smart micro-grid optimization with controllable loads using particle swarm optimization. , 2013, , .		11
158	Remote power system stabilizer tuning using synchrophasor data. , 2014, , .		11
159	Optimal scheduling of generator maintenance using modified discrete particle swarm optimization. , 2007, , .		10
160	Real-time implementation of an intelligent algorithm for electric ship power system reconfiguration. , 2009, , .		10
161	Harmonic identification using an Echo State Network for adaptive control of an active filter in an electric ship. , 2009, , .		10
162	Voltage prediction using a Cellular Network. , 2010, , .		10

#	ARTICLE	IF	CITATIONS
163	Computational intelligence for control of wind turbine generators. , 2011, , .		10
164	Online coherency analysis of synchronous generators in a power system. , 2014, , .		10
165	Side-Channels in Electric Power Synchrophasor Network Data Traffic. , 2015, , .		10
166	Side channel analysis of multiple PMU data in electric power systems. , 2015, , .		10
167	Spatial predictions of solar irradiance for photovoltaic plants. , 2016, , .		10
168	Decentralized optimal neuro-controllers for generation and transmission devices in an electric power network. Engineering Applications of Artificial Intelligence, 2005, 18, 37-46.	8.1	9
169	A wide area measurement based neurocontrol for generation excitation systems. Engineering Applications of Artificial Intelligence, 2009, 22, 473-481.	8.1	9
170	Coordinated reactive power control of a large wind farm and a STATCOM using heuristic dynamic programming. , 2009, , .		9
171	A hybrid method for power system state estimation using Cellular Computational Network. Engineering Applications of Artificial Intelligence, 2017, 64, 140-151.	8.1	9
172	Dynamic state estimation for distribution networks with renewable energy integration. International Journal of Smart Grid and Clean Energy, 2013, 2, 307-315.	0.4	9
173	Optimal Control of a Photovoltaic Solar Energy System with Adaptive Critics. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	8
174	A DSTATCOM controller tuned by Particle Swarm Optimization for an Electric Ship Power System. , 2008, , .		8
175	Hardware implementations of Swarming Intelligence — a survey. , 2008, , .		8
176	DSP-Based PSO Implementation for Online Optimization of Power System Stabilizers. , 2008, , .		8
177	A PSO with quantum infusion algorithm for training Simultaneous Recurrent Neural Networks. , 2009, , .		8
178	Adaptive critics for dynamic optimization. Neural Networks, 2010, 23, 587-591.	5.9	8
179	PSO Tuned Flatness Based Control of a Magnetic Levitation System. , 2010, , .		8
180	Wide area monitoring in power systems using cellular neural networks. , 2011, , .		8

#	ARTICLE	IF	CITATIONS
181	Comparison of TDNN and RNN performances for neuro-identification on small to medium-sized power systems. , 2011, , .		8
182	Intelligent methods for smart microgrids. , 2011, , .		8
183	Investigating effects of changes in power market regulations on demand-side resources aggregators. , 2015, , .		8
184	Dishonest Gauss Newton method based power system state estimation on a GPU. , 2016, , .		8
185	Bio-inspired Algorithms for the Design of Multiple Optimal Power System Stabilizers: SPPSO and BFA. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	7
186	Intelligent Integration of a Wind Farm to an Utility Power Network with Improved Voltage Stability. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	7
187	Cancellation Predictive Control for Three-Phase PWM Rectifiers under Harmonic and Unbalanced Input Conditions. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	7
188	Enhanced wide area monitoring system. , 2010, , .		7
189	Dynamic estimation of rotor angle deviation of a generator in multi-machine power systems. Electric Power Systems Research, 2013, 97, 1-9.	3.6	7
190	Cellular neural network based situational awareness system for power grids. , 2013, , .		7
191	Power system controller design using multi-population PBIL. , 2013, , .		7
192	Performance of a smart microgrid with battery energy storage system's size and state of charge. , 2014, , .		7
193	Stochastic Optimization for Combined Economic and Emission Dispatch with Renewables. , 2015, , .		7
194	A service provider model for demand response management. , 2016, , .		7
195	Smart AMI based demand-response management in a micro-grid environment. , 2016, , .		7
196	A lite cellular generalized neuron network for frequency prediction of synchronous generators in a multimachine power system. , 2016, , .		7
197	Optimized automatic generation control in a multi-area power system with particle swarm optimization. , 2017, , .		7
198	Scalable Residential Demand Response Management. IEEE Access, 2021, 9, 159133-159145.	4.2	7

#	ARTICLE	IF	CITATIONS
199	Distributed Demand Response Management for a Virtually Connected Community With Solar Power. IEEE Access, 2022, 10, 8350-8362.	4.2	7
200	Wide area signal based optimal neurocontroller for a UPFC. , 2008, , .		6
201	Artificial immune system based DSTATCOM control for an electric ship power system. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	6
202	Implementation of a PSO based online design of an optimal excitation controller. , 2008, , .		6
203	Empirical study of a hybrid algorithm based on Clonal Selection and Small Population Based PSO. , 2008, , .		6
204	Embedded neural network for fire classification using an array of gas sensors. , 2008, , .		6
205	Generalized neuron based secure media access control protocol for wireless sensor networks. , 2009, , .		6
206	Virtual generators: Simplified online power system representations for wide-area damping control. , 2012, , .		6
207	Neural networks in RSCAD for intelligent real-time power system applications. , 2013, , .		6
208	Ultra-low cost and solar storm secured local DC electricity to address climate change challenges for all economies. , 2016, , .		6
209	Spatio-Temporal Distributed Solar Irradiance and Temperature Forecasting. , 2020, , .		6
210	Computational Intelligence Techniques for Control of FACTS Devices. , 2005, , 201-237.		5
211	A Novel Seven-Level Shunt Active Filter for High-Power Drive Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
212	CARBON REDUCTION POTENTIAL WITH INTELLIGENT CONTROL OF POWER SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13952-13957.	0.4	5
213	Swarm Intelligence for Collective Robotic Search. Studies in Computational Intelligence, 2009, , 29-47.	0.9	5
214	Cellular Multilayer Perceptron for Prediction of Voltages in a Power System. , 2009, , .		5
215	SmartParks for short term power flow control in smart grids. , 2012, , .		5
216	Coordinated design of local and wide-area damping controllers for power systems using particle swarm optimization. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
217	Optimal fuzzy logic based coordination controller for improved transient stability of a smart grid. , 2014, , .		5
218	Combined emission and economic dispatch incorporating demand side resources. , 2015, , .		5
219	Optimal tuning of governors on synchronous generators in a multi-area power system with a large photovoltaic plant. , 2016, , .		5
220	Cellular computational generalized neuron network for frequency situational intelligence in a multi-machine power system. Neural Networks, 2017, 93, 21-35.	5.9	5
221	Wide-Area Situational Awareness based Power System Stabilizer Tuning with Utility Scale PV Integration. , 2018, , .		5
222	A Distribution System Test Feeder for DER Integration Studies. , 2018, , .		5
223	Situational awareness of coherency behavior of synchronous generators in a power system with utility-scale photovoltaics. Electric Power Systems Research, 2019, 172, 38-49.	3.6	5
224	Density Estimation Using a Generalized Neuron. , 2006, , .		4
225	Real-Time Implementation of a Dual Function Neuron based Wide Area SVC Damping Controller. , 2006, , .		4
226	MISO damping controller design for a TCSC using particle swarm. , 2007, , .		4
227	Neural-network-based intelligent control for improving dynamic performance of FACTS devices. , 2007, , .		4
228	Hardware Implementation of an AIS-Based Optimal Excitation Controller for an Electric Ship. , 2008, , .		4
229	Real-Time Collaborative Routing Algorithm for Wireless Sensor Network Longevity. , 2008, , .		4
230	NSF CAREER: Scalable learning and adaptation with intelligent techniques and neural networks for reconfiguration and survivability of complex systems. , 2008, , .		4
231	Missing-sensor-fault-tolerant control for SSSC facts device with real-time implementation. , 2009, , .		4
232	A Real-Time Implementation of a PBIL Based Stabilizing Controller for Synchronous Generator. , 2009, , .		4
233	Innovative smart grid control technologies. , 2011, , .		4
234	CNN based power system transient stability margin and voltage stability index prediction. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
235	Optimal utilization of STATCOM devices in a power system with high penetration of wind generation. , 2014, , .		4
236	Frequency Prediction of Synchronous Generators in a Multi-Machine Power System with a Photovoltaic Plant Using a Cellular Computational Network. , 2015, , .		4
237	Multiple power system stabilizers tuning using mean-variance optimization. , 2015, , .		4
238	Optimal allocation of power routers in a STATCOM-installed electric grid with high penetration of wind energy. , 2015, , .		4
239	Guest Editorial Special Issue on "Neural Networks and Learning Systems Applications in Smart Grid" IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1601-1603.	11.3	4
240	Situational intelligence for online coherency analysis of synchronous generators in power system. , 2016, , .		4
241	Dynamic performance enhancement of a utility-scale solar PV plant. , 2016, , .		4
242	Convergence of the Fast State Estimation for Power Systems. SAIEE Africa Research Journal, 2017, 108, 117-127.	1.2	4
243	Cellular Computational Networks based Voltage Contingency Ranking Regarding Power System Security. , 2018, , .		4
244	Protocol Proxy: An FTE-based covert channel. Computers and Security, 2020, 92, 101777.	6.0	4
245	A distributed data-driven modelling framework for power flow estimation in power distribution systems. IET Energy Systems Integration, 2021, 3, 367-379.	1.8	4
246	Resilient and Sustainable Tie-Line Bias Control for a Power System in Uncertain Environments. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 205-219.	4.9	4
247	Nonlinear Modified PI Control of Multi-Module GCSCs in a Large Power System. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	3
248	Parameter Optimization of PSS Based on Estimated Hessian Matrix from Trajectory Sensitivities. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
249	Management of an intelligent argumentation network for a web-based collaborative engineering design environment. , 2007, , .		3
250	Intelligent Local and Hierarchical Control of FACTS Devices. , 2007, , .		3
251	Real Time Implementation of an Artificial Immune System Based Controller for a DSTATCOM in an Electric Ship Power System. , 2008, , .		3
252	Conference report: 2008 IEEE Swarm Intelligence Symposium (SIS 2008). IEEE Computational Intelligence Magazine, 2009, 4, 20-21.	3.2	3

#	ARTICLE	IF	CITATIONS
253	Heuristic Algorithms for Solving Convex and Nonconvex Economic Dispatch. , 2009, , .		3
254	Implementation of an Intelligent Reconfiguration Algorithm for an Electric Ship Power System. , 2009, , .		3
255	Dynamic system eigenvalue extraction using a linear echo state network for small-signal stability analysis - a novel application. , 2010, , .		3
256	A scalable wide area monitoring system using cellular neural networks. , 2012, , .		3
257	Developing neural networks library in RSCAD for real-time power system simulation. , 2013, , .		3
258	Adaptive-critic-based control of a synchronous generator in a power system using biologically inspired artificial neural networks. , 2015, , .		3
259	Power system distributed dynamic state prediction. , 2016, , .		3
260	Cellular computational extreme learning machine network based frequency predictions in a power system. , 2017, , .		3
261	Critical clearing time prediction using recurrent neural networks. , 2017, , .		3
262	Distributed Dynamic State Estimation for Smart Grid Transmission System. IFAC-PapersOnLine, 2017, 50, 98-103.	0.9	3
263	Situational awareness in an electric utility's control center of its generators' damping capabilities. , 2017, , .		3
264	Forecasting Peak Daily Load in Distribution Feeders. , 2018, , .		3
265	A Survey on the Effects of False Data Injection Attack on Energy Market. , 2018, , .		3
266	Comparison of Learning Cellular Computational Networks with EKF and CPSO for Multi-Location Wind Speed Prediction. , 2018, , .		3
267	Integration of SmartParks in a Power System with Utility-Scale PV Plant. , 2018, , .		3
268	Online Identification of Power System Network Branch Events. , 2019, , .		3
269	Online Steady-State Security Awareness Using Cellular Computation Networks and Fuzzy Techniques. Energies, 2021, 14, 148.	3.1	3
270	Comparisons Of An Adaptive Neural Network Based Controller And An Optimized Conventional Power System Stabilizer. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	2

#	ARTICLE	IF	CITATIONS
271	Self-Healing Control with Multifunctional Gate Drive Circuits for Power Converters. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	2
272	Identification of Induction Machines Stator Currents with Generalized Neurons. , 2007, , .		2
273	A dual function neuron based external controller for a static var compensator. , 2008, , .		2
274	Computational approach to optimal damping controller design for a GCSC. , 2008, , .		2
275	Online identification of generator dynamics in a multimachine power system with a spiking neural network. , 2009, , .		2
276	V2G Scheduling - A Modern Approach to Unit Commitment with Vehicle-to-Grid using Particle Swarm Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 261-266.	0.4	2
277	Dynamic performance model of wind turbine generators. , 2013, , .		2
278	Tie-line bias control and oscillations with variable generation in a two-area power system. , 2014, , .		2
279	Computational Approaches for Bad Data Handling in Power System Synchrophasor Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11269-11274.	0.4	2
280	Hybrid double flying capacitor multicell converter for renewable energy integration. , 2015, , .		2
281	Scalable cellular computational network based WLS state estimator for power systems. , 2015, , .		2
282	An LMI-SSI model based PSS design approach for a multi-machine power system. , 2015, , .		2
283	Transformative role of photovoltaics in phasing out alternating current based grid by local DC power networks for sustainable global economic growth. , 2016, , .		2
284	Cellular computational generalized neuron network with cooperative PSO for power systems. , 2017, , .		2
285	Pattern recognition for electric energy consumption prediction in a laboratory environment. , 2017, , .		2
286	Influencing behavior of electricity consumers to enhance participation in demand response. , 2017, , .		2
287	Multi-objective PSO for scheduling electricity consumption in a smart neighborhood. , 2017, , .		2
288	An On-line Electric Power Distribution System Simulator. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
289	Distributed voltage control for distribution feeder with photovoltaic systems. , 2018, , .		2
290	Cellular Computational Networks for Distributed Prediction of Active Power Flow in Power Systems under Contingency. , 2019, , .		2
291	Optimal Power Flow in Distribution Scheme Using Load Forecast. , 2019, , .		2
292	A Graph Theory-Based Clustering Method for Power System Networks. , 2020, , .		2
293	Situational Awareness of Power System Stabilizersâ€™ Performance in Energy Control Centers. , 2020, , .		2
294	A Neural Network Approach to Adaptive Inference of Frequency Droop Curves in Power Systems with Solar PV Plants. , 2021, , .		2
295	An empirical approach to frequency droop characterization from utilityâ€™scale photovoltaic plants operation in a power system. IET Generation, Transmission and Distribution, 2021, 15, 1539-1551.	2.5	2
296	Power System Control with an Embedded Neural Network in Hybrid System Modeling. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	1
297	Fault-Tolerant Control for SSSC Using Neural Networks and PSO. , 2006, , .		1
298	Application of Neural Networks for Data Modeling of Power Systems with Time Varying Nonlinear Loads. , 2007, , .		1
299	Making the power grid more intelligent. , 2007, , .		1
300	Impedance Identification of Integrated Power System Components using Recurrent Neural Networks. , 2007, , .		1
301	New Power Quality Index in a Distribution Power System by Using RMP Model. , 2008, , .		1
302	Learning nonlinear functions with MLPs and SRNs. , 2009, , .		1
303	Learning functions generated by randomly initialized MLPs and SRNs. , 2009, , .		1
304	Indirect adaptive control of an active filter using Echo State Networks. , 2010, , .		1
305	A dynamic optimization method for a smart grid. , 2010, , .		1
306	Optimization of power system stabilizer parameters using population-based incremental learning. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
307	Wide area monitoring of rotor angle based on synchrophasor measurements. , 2012, , .		1
308	Reservoir-computing-based, biologically-inspired artificial neural network for modeling of a single machine infinite bus power system. , 2012, , .		1
309	Dynamic stochastic optimal power flow control for intelligent coordination of grid-connected energy systems. , 2012, , .		1
310	Guest Editorial Special Section on Computational Intelligence Applications in Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 445-445.	9.0	1
311	Two-level dynamic stochastic optimal power flow control for power systems with intermittent renewable generation. , 2014, , .		1
312	PhasorToolBox â€œ A Python Package for Synchrophasor Application Prototyping. , 2018, , .		1
313	CI-based Analytics for Photovoltaic Power Predictions and Tie-line Bias Control in Smart Grid. , 2018, , .		1
314	A Study on Demand Response Potential of a Residential Area Using Census Data. , 2018, , .		1
315	Distributed Demand Response Management. , 2020, , .		1
316	LVQ Neural Network for Online Identification of Power System Network Branch Events. , 2020, , .		1
317	Intelligent Power Converter Controllers for Photovoltaic Systems. , 2020, , .		1
318	Adaptive Critic Designs Based Coupled Neurocontrollers for a Static Compensator. , 2006, , .		1
319	Distributed Identification of Power System Network Branch Events. , 2020, , .		1
320	Distributed Volt-Var Curve Optimization Using a Cellular Computational Network Representation of an Electric Power Distribution System. Energies, 2022, 15, 4438.	3.1	1
321	Adaptive critic designs based coupled neurocontrollers for a static compensator. , 2006, , .		0
322	Adaptive Critic Design Based Neuro-Fuzzy Controller for a Static Compensator in a Multimachine Power System. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	0
323	Self-Healing Control with Multifunctional Gate Drive Circuits for Power Converters. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
324	Implementation of neuroidentifiers trained by PSO on a PLC platform for a multimachine power system. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
325	Getting an NSF CAREER award and beyond. , 2009, , .		0
326	PREDICTION OF ELEPHANT MOVEMENT IN A GAME RESERVE USING NEURAL NETWORKS. New Mathematics and Natural Computation, 2009, 05, 421-439.	0.7	0
327	Iterative Design of FIR Filters. , 2013, , 145-166.		0
328	Grid-tied power converter with GPS capability for smart grid applications. , 2016, , .		0
329	Virtual generators based damping controller for a multi-machine power system using $\hat{1}/4$ -synthesis. , 2016, , .		0
330	Stochastic Subspace Identification Validation of PV Inverter Operation Improvement with Optimallyâ€Tuned Controllers. , 2018, , .		0
331	Spatial Matrix Based Clustering of Sparse Electric Power Networks. SAIEE Africa Research Journal, 2019, 110, 26-38.	1.2	0
332	Cellular Computational Network for Distributed Power Flow Inferencing in Electric Distribution Systems. , 2019, , .		0
333	AGC Asynchronous Tuning for Improving PV Consumption in the Energy Imbalance Market. , 2020, , .		0
334	Online Voltage Optimization of the Power Distribution System. , 2020, , .		0
335	Intelligent Monitoring and Control of Microgrid. , 2010, , .		0