

# Yateendra Mishra

## List of Publications by Year in descending order

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138  
papers

4,073  
citations

186265

28  
h-index

133252

59  
g-index

139  
all docs

139  
docs citations

139  
times ranked

3647  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review and evaluation of the state-of-the-art in PV solar power forecasting: Techniques and optimization. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 124, 109792.	16.4	523
2	Coordinated Control of Grid-Connected Photovoltaic Reactive Power and Battery Energy Storage Systems to Improve the Voltage Profile of a Residential Distribution Feeder. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 967-977.	11.3	293
3	Demand Response for Residential Appliances via Customer Reward Scheme. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 809-820.	9.0	248
4	A Decentralized Bilateral Energy Trading System for Peer-to-Peer Electricity Markets. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 4646-4657.	7.9	234
5	Fuzzy-Logic Based Frequency Controller for Wind Farms Augmented With Energy Storage Systems. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 1595-1603.	6.5	181
6	Market framework for local energy trading: a review of potential designs and market clearing approaches. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 5899-5908.	2.5	156
7	Improving Stability of a DFIG-Based Wind Power System With Tuned Damping Controller. <i>IEEE Transactions on Energy Conversion</i> , 2009, 24, 650-660.	5.2	150
8	Small-Signal Stability Analysis of a DFIG-Based Wind Power System Under Different Modes of Operation. <i>IEEE Transactions on Energy Conversion</i> , 2009, 24, 972-982.	5.2	148
9	Improving voltage profile of residential distribution systems using rooftop PVs and Battery Energy Storage systems. <i>Applied Energy</i> , 2014, 134, 290-300.	10.1	113
10	Assessment techniques of the impact of grid-tied rooftop photovoltaic generation on the power quality of low voltage distribution network - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109643.	16.4	113
11	Probabilistic load flow for distribution systems with uncertain PV generation. <i>Applied Energy</i> , 2016, 163, 343-351.	10.1	100
12	Real-Time Price Based Home Energy Management Scheduler. <i>IEEE Transactions on Power Systems</i> , 2015, 30, 2149-2159.	6.5	73
13	Output power smoothing control approaches for wind and photovoltaic generation systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109245.	16.4	62
14	Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 2487-2497.	9.0	57
15	Delay-Tolerant Predictive Power Compensation Control for Photovoltaic Voltage Regulation. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 4545-4554.	11.3	55
16	Smoothing control strategy of wind and photovoltaic output power fluctuation by considering the state of health of battery energy storage system. <i>IET Renewable Power Generation</i> , 2019, 13, 578-586.	3.1	53
17	Coordinated Tuning of DFIG-Based Wind Turbines and Batteries Using Bacteria Foraging Technique for Maintaining Constant Grid Power Output. <i>IEEE Systems Journal</i> , 2012, 6, 16-26.	4.6	50
18	Hybrid trading scheme for peer-to-peer energy trading in transactive energy markets. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 245-253.	2.5	50

#	ARTICLE	IF	CITATIONS
19	Coordination of wind generation and demand response to minimise operation cost in day-ahead electricity markets using bi-level optimisation framework. IET Generation, Transmission and Distribution, 2018, 12, 3793-3802.	2.5	45
20	Auction based energy trading in transactive energy market with active participation of prosumers and consumers. , 2017, , .		44
21	High-impedance fault detection and classification in power system distribution networks using morphological fault detector algorithm. IET Generation, Transmission and Distribution, 2018, 12, 3699-3710.	2.5	42
22	Voltage Restoration and Adjustable Current Sharing for DC Microgrid With Time Delay via Distributed Secondary Control. IEEE Transactions on Sustainable Energy, 2021, 12, 1068-1077.	8.8	38
23	Distributed State-of-Charge Balance Control With Event-Triggered Signal Transmissions for Multiple Energy Storage Systems in Smart Grid. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1601-1611.	9.3	37
24	Design of auction-based approach for market clearing in peer-to-peer market platform. Journal of Engineering, 2019, 2019, 4813-4818.	1.1	37
25	Dual-Consensus-Based Distributed Frequency Control for Multiple Energy Storage Systems. IEEE Transactions on Smart Grid, 2019, 10, 6396-6403.	9.0	35
26	Kalman filter approach for dispatching and attenuating the power fluctuation of wind and photovoltaic power generating systems. IET Generation, Transmission and Distribution, 2018, 12, 1501-1508.	2.5	32
27	Enhancing scalability of peer-to-peer energy markets using adaptive segmentation method. Journal of Modern Power Systems and Clean Energy, 2019, 7, 791-801.	5.4	32
28	Constrained Optimization of Multicast Routing for Wide Area Control of Smart Grid. IEEE Transactions on Smart Grid, 2019, 10, 3801-3808.	9.0	31
29	Model Order Reduction Techniques for Physics-Based Lithium-Ion Battery Management: A Survey. IEEE Industrial Electronics Magazine, 2022, 16, 36-51.	2.6	31
30	Stochastic Ranking Method for Thermostatically Controllable Appliances to Provide Regulation Services. IEEE Transactions on Power Systems, 2015, 30, 1987-1996.	6.5	29
31	Utilizing distributed energy resources to support frequency regulation services. Applied Energy, 2017, 206, 1484-1494.	10.1	29
32	Modeling Dynamic Demand Response Using Monte Carlo Simulation and Interval Mathematics for Boundary Estimation. IEEE Transactions on Smart Grid, 2015, 6, 2704-2713.	9.0	28
33	Retailer's risk-aware trading framework with demand response aggregators in short-term electricity markets. IET Generation, Transmission and Distribution, 2019, 13, 2611-2618.	2.5	26
34	Minimizing Multicast Routing Delay in Multiple Multicast Trees With Shared Links for Smart Grid. IEEE Transactions on Smart Grid, 2019, 10, 5427-5435.	9.0	25
35	Differential Dynamic Programming Based Home Energy Management Scheduler. IEEE Transactions on Sustainable Energy, 2020, 11, 1427-1437.	8.8	25
36	Peer-to-peer market clearing framework for DERs using knapsack approximation algorithm. , 2017, , .		24

#	ARTICLE	IF	CITATIONS
37	The Role of Demand Response Aggregators and the Effect of GenCos Strategic Bidding on the Flexibility of Demand. <i>Energies</i> , 2018, 11, 3296.	3.1	24
38	Security constrained economic dispatch considering wind energy conversion systems. , 2011, , .		22
39	Generating Scale-Free Topology for Wireless Neighborhood Area Networks in Smart Grid. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 4245-4252.	9.0	22
40	Decoupled controller for single-phase grid connected rooftop PV systems to improve voltage profile in residential distribution systems. <i>IET Renewable Power Generation</i> , 2017, 11, 370-377.	3.1	21
41	Morphological Fault Detector for Adaptive Overcurrent Protection in Distribution Networks With Increasing Photovoltaic Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 1021-1029.	8.8	21
42	Universal active and reactive power control of electronically interfaced distributed generation sources in virtual power plants operating in grid-connected and islanding modes. <i>IET Generation, Transmission and Distribution</i> , 2013, 7, 885-897.	2.5	20
43	Fast Unscented Transformation-Based Transient Stability Margin Estimation Incorporating Uncertainty of Wind Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 1254-1262.	8.8	20
44	An Improved Algorithm to Remove DC Offsets From Fault Current Signals. <i>IEEE Transactions on Power Delivery</i> , 2017, 32, 749-756.	4.3	20
45	Dynamic programming based home energy management unit incorporating PVs and batteries. , 2017, , .		20
46	TS-fuzzy controlled DFIG based wind energy conversion systems. , 2009, , .		19
47	The operating schedule for battery energy storage companies in electricity market. <i>Journal of Modern Power Systems and Clean Energy</i> , 2013, 1, 275-284.	5.4	19
48	Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. <i>IEEE Transactions on Control of Network Systems</i> , 2020, 7, 1559-1570.	3.7	19
49	Impact of Wind Power Development on Transmission Planning at Midwest ISO. <i>IEEE Transactions on Sustainable Energy</i> , 2012, 3, 845-852.	8.8	18
50	A novel real time pricing scheme for demand response in residential distribution systems. , 2013, , .		18
51	Distributed Voltage Regulation for Low-Voltage and High-PV-Penetration Networks With Battery Energy Storage Systems Subject to Communication Delay. <i>IEEE Transactions on Control Systems Technology</i> , 2022, 30, 426-433.	5.2	17
52	Distributed load scheduling in residential neighborhoods for coordinated operation of multiple home energy management systems. <i>Applied Energy</i> , 2021, 300, 117353.	10.1	17
53	Induction motor load impact on power system eigenvalue sensitivity analysis. <i>IET Generation, Transmission and Distribution</i> , 2009, 3, 690-700.	2.5	16
54	Wave Aspect of Power System Transient Stability—Part II: Control Implications. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 2501-2508.	6.5	16

#	ARTICLE	IF	CITATIONS
55	Transactive market clearing model with coordinated integration of large-scale solar PV farms and demand response capable loads. , 2017, , .		16
56	Achieving a minimum power fluctuation rate in wind and photovoltaic output power using discrete Kalman filter based on weighted average approach. IET Renewable Power Generation, 2018, 12, 633-638.	3.1	16
57	Steady-State Voltage Regulation With Reduced Photovoltaic Power Curtailment. IEEE Journal of Photovoltaics, 2020, 10, 1853-1863.	2.5	16
58	Demand-Side Management and Demand Response for Smart Grid. Energy Systems in Electrical Engineering, 2019, , 197-231.	0.7	15
59	Constrained Broadcast With Minimized Latency in Neighborhood Area Networks of Smart Grid. IEEE Transactions on Industrial Informatics, 2020, 16, 309-318.	11.3	15
60	Discrete-Event Systems Supervisory Control for a Custom Power Park. IEEE Transactions on Smart Grid, 2019, 10, 483-492.	9.0	14
61	Competition driven bi-level supply offer strategies in day ahead electricity market. , 2016, , .		13
62	Efficient probabilistic contingency analysis through a stability measure considering wind perturbation. IET Generation, Transmission and Distribution, 2016, 10, 897-905.	2.5	13
63	Modelling of DC arcs for photovoltaic system faults. , 2016, , .		12
64	Wave Aspect of Power System Transient Stabilityâ€™Part I: Finite Approximation. IEEE Transactions on Power Systems, 2017, 32, 2493-2500.	6.5	12
65	DC Arc Fault Detection For Grid-Connected Large-Scale Photovoltaic Systems. IEEE Journal of Photovoltaics, 2020, 10, 1489-1502.	2.5	12
66	Small signal stability analysis of a DFIG based wind power system with tuned damping controller under super/sub-synchronous mode of operation. , 2009, , .		11
67	Distributed Market Clearing Approach for Local Energy Trading in Transactive Market. , 2018, , .		11
68	Fuzzy-based smoothing of fluctuations in output power from wind and photovoltaics in a hybrid power system with batteries. International Transactions on Electrical Energy Systems, 2019, 29, e2757.	1.9	11
69	Mobile-Energy-as-a-Service (MEaaS): Sustainable Electromobility via Integrated Energyâ€™Transportâ€™Urban Infrastructure. Sustainability, 2022, 14, 2796.	3.2	11
70	Long term transmission planning to meet renewable energy targets in Australia. , 2012, , .		10
71	Dynamic equivalentâ€™based reliability evaluation of distribution systems with DGs. IET Generation, Transmission and Distribution, 2016, 10, 2285-2294.	2.5	10
72	Assessment of voltage unbalance due to single phase rooftop photovoltaic panels in residential low voltage distribution network: A study on a real LV network in Western Australia. , 2017, , .		10

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73	Measurement Sensitivity and Estimation Error in Distribution System State Estimation using Augmented Complex Kalman Filter. Journal of Modern Power Systems and Clean Energy, 2020, 8, 657-668.	5.4	10
74	Utilizing Wide-Area Signals for off-center SVCs to damp interarea oscillations. , 2013, , .		9
75	Real-time wide-area loading margin sensitivity (WALMS) in power systems. , 2015, , .		9
76	A new algorithm for improving the numerical stability of power system state estimation. IEEE Transactions on Electrical and Electronic Engineering, 2019, 14, 358-365.	1.4	9
77	Rough Fuzzy Control of SVC for Power System Stability Enhancement. Journal of Electrical Engineering and Technology, 2008, 3, 337-345.	2.0	9
78	Detection and identification of high impedance faults in single wire earth return distribution networks. , 2016, , .		8
79	Improved Reactive Power Sharing Among Customers' Inverters Using Online Thevenin Estimates. IEEE Transactions on Power Systems, 2019, 34, 4168-4176.	6.5	8
80	Voltage fluctuation mitigation: fast allocation and daily local control of DSTATCOMs to increase solar energy harvest. IET Renewable Power Generation, 2019, 13, 2558-2568.	3.1	8
81	Two-step market clearing for local energy trading in feeder-based markets. Journal of Engineering, 2019, 2019, 4775-4779.	1.1	8
82	An improved protection strategy for microgrids. , 2013, , .		7
83	Role of electromechanical wave propagation in power systems. , 2013, , .		7
84	Wide-area damping control for inter-area oscillations using inverse filtering technique. IET Generation, Transmission and Distribution, 2015, 9, 1534-1543.	2.5	7
85	Active and reactive power control of synchronous generator for the realization of a virtual power plant. , 2012, , .		6
86	Estimating the impact of reduced inertia on frequency stability due to large-scale wind penetration in Australian electricity network. , 2014, , .		6
87	Utilizing reactive capability of PV inverters and battery systems to improve voltage profile of a residential distribution feeder. , 2014, , .		6
88	Detection of high impedance faults in PV systems using mathematical morphology. , 2018, , .		6
89	Reducing voltage fluctuations using DSTATCOMs and reactive power of PV inverters in a medium voltage distribution system. Journal of Engineering, 2019, 2019, 5274-5279.	1.1	6
90	Real-time price based home energy management scheduler. , 2015, , .		5

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91	Challenges in high impedance fault detection due to increasing penetration of photovoltaics in radial distribution feeder. , 2017, , .		5
92	Impacts of Single-Phase PV Injection on Voltage Quality in 3-Phase 4-Wire Distribution Systems. , 2018, , .		5
93	Effective planning approach to interconnect bulk quantities of wind generation. , 2010, , .		4
94	A flexible protection scheme for an islanded Multi-Microgrid. , 2013, , .		4
95	PMU measurement based dynamic load modeling using SVC devices in online enviroment. , 2015, , .		4
96	Optimal placement of PMUs using river formation dynamics (RFD). , 2016, , .		4
97	Solution methods of Ill-conditioned power system state estimation: A comparative study. , 2017, , .		4
98	A fuzzy logic control approach for smoothing of wind and photovoltaic generation output fluctuations. , 2017, , .		4
99	DC Arc-Fault Detection in PV Systems Using Multistage Morphological Fault Detection Algorithm. , 2018, , .		4
100	Capacity Loss Reduction using Smart-Battery Management System for Li-ion Battery Energy Storage Systems. , 2020, , .		4
101	Application of TS-Fuzzy Controller for Active Power and DC Capacitor Voltage Control in DFIG-Based Wind Energy Conversion Systems. Green Energy and Technology, 2010, , 367-382.	0.6	4
102	Reducing power fluctuations from wind and photovoltaic systems using discrete Kalman filter. , 2016, , .		4
103	Some of the Design Considerations in Power Generation from Offshore Wind Farms. Engineering & Technology Reference, 2014, , .	0.1	4
104	Battery energy storage systems to improve power system frequency response. , 2014, , .		3
105	Correction factors for dynamic state estimation of aggregated generators. , 2015, , .		3
106	Incremental placement of PMUs for enhancing state estimation accuracy. , 2016, , .		3
107	Communication requirements of wide area control in smart grids. , 2016, , .		3
108	Network impact of multiple HEMUs with PVs and BESS in a low voltage distribution feeder. , 2017, , .		3

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109	Multiobjective Home Appliances Scheduling Considering Customer Thermal Discomfort: A Multistep Look-ahead ADP-Based Approach. , 2019, , .		3
110	Battery Dispatching for End Users With On-Site Renewables and Peak Demand Charges—An Approximate Dynamic Programming Approach. IEEE Transactions on Control Systems Technology, 2022, 30, 2100-2114.	5.2	3
111	Power system sensitivity analysis considering induction motor loads. , 2009, , .		2
112	Eigenvalue Analysis of a DFIG Based Wind Power System under Different Modes of Operations. Green Energy and Technology, 2010, , 191-213.	0.6	2
113	Collaborative efforts to enhance power engineering education in Australia. , 2012, , .		2
114	Energy efficient home with price sensitive stochastically programmable TCAs. , 2014, , .		2
115	Design of a nonlinear excitation controller using inverse filtering for transient stability enhancement. , 2014, , .		2
116	Power system stability implications from electromechanical wave propagation. , 2015, , .		2
117	Power admission control of plug-in electric vehicles using supervisory control of discrete event system. , 2017, , .		2
118	Primary Frequency Controller with Prediction-Based Droop Coefficient for Wind-Storage Systems under Spot Market Rules. Energies, 2018, 11, 2340.	3.1	2
119	Doubly Fed Induction Generators. , 2010, , 147-178.		2
120	An incremental meter placement method for state estimation considering collinear measurements and high leverage points. International Journal on Smart Sensing and Intelligent Systems, 2020, 13, 1-12.	0.7	2
121	Modular Multilevel Series Parallel Converter Prototype Design for Li-ion Battery Management Systems. , 2021, , .		2
122	Design of fixed order robust power oscillation damper for TCSC. , 2008, , .		1
123	Innovative planning approaches for generator interconnection group study. , 2010, , .		1
124	Generator interconnection procedures at the Midwest ISO. , 2011, , .		1
125	Probability analysis of machine angle stability with Non-Gaussian wind power input. , 2012, , .		1
126	Distribution feeder loads classification and decomposition. , 2012, , .		1

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127	Power system stability enhancement using flux control for excitation system. , 2013, , .		1
128	The application of BESS in load shedding scheme. , 2013, , .		1
129	Insulation coordination study for a 50 kV traction feeder station. , 2014, , .		1
130	Protection Issues in Microgrids and Multi-microgrids. , 2017, , 503-547.		1
131	Improved reactive power sharing among photovoltaic inverters using ThÃ©venin's impedance based approach. , 2017, , .		1
132	A Multiobjective Voltage Unbalance Factor for PV Hosting Capacity with Probabilistic ZIP Load Models. , 2018, , .		1
133	Detection of DC Arc-Faults in Battery Energy Storage Systems. , 2019, , .		1
134	Effectiveness of Reactive Power Capability of Photo Voltaic Inverters to Maintain Voltage Profile in a Residential Distribution Feeder. GSTF Journal of Engineering Technology, 2013, 2, .	0.0	1
135	Multiresolution matrix factorisation as a compression method for smart meter data. Journal of Engineering, 2020, 2020, 737-744.	1.1	1
136	Application of Inverse Filtering Technique in Power System Studies. IFAC-PapersOnLine, 2015, 48, 203-208.	0.9	0
137	A Pricing Mechanism for BESS in Frequency Regulation Considering Penetration of the Renewables. , 2019, , .		0
138	Effectiveness of Reactive Power Capability of Photo Voltaic Inverters to Maintain Acceptable Voltage Profile in a Residential Distribution System. , 2013, , .		0