Ashok Kumar Pradhan

List of Publications by Citations

93 papers	1,945 citations	25 h-index	41 g-index
114 ext. papers	2,727 ext. citations	4.6 avg, IF	6.01 L-index

#	Paper	IF	Citations
93	Adaptive Phasor and Frequency-Tracking Schemes for Wide-Area Protection and Control. *IEEE Transactions on Power Delivery*, **2011**, 26, 744-753	4.3	104
92	Fuzzy Partitioning of a Real Power System for Dynamic Vulnerability Assessment. *IEEE Transactions on Power Systems*, **2009**, 24, 1356-1365	7	94
91	Synchrophasor-Assisted Zone 3 Operation. *IEEE Transactions on Power Delivery*, **2014**, 29, 660-667	4.3	92
90	Wide-Area Measurement-Based Backup Protection for Power Network With Series Compensation. *IEEE Transactions on Power Delivery*, **2014**, 29, 1970-1977	4.3	91
89	A Fault Detection Technique for the Series-Compensated Line During Power Swing. *IEEE Transactions on Power Delivery*, **2013**, 28, 714-722	4.3	91
88	Automatic Segmentation of Large Power Systems Into Fuzzy Coherent Areas for Dynamic Vulnerability Assessment. *IEEE Transactions on Power Systems*, **2007**, 22, 1974-1985	7	83
87	Robust Detection and Analysis of Power System Oscillations Using the Teager-Kaiser Energy Operator. *IEEE Transactions on Power Systems*, **2011**, 26, 323-333	7	80
86	An Accurate Noniterative Fault-Location Technique for Low-Voltage DC Microgrid. *IEEE Transactions on Power Delivery*, **2016**, 31, 475-481	4.3	77
85	Differential Power-Based Symmetrical Fault Detection During Power Swing. *IEEE Transactions on Power Delivery*, **2012**, 27, 1557-1564	4.3	74
84	Power-Swing Detection Using Moving Window Averaging of Current Signals. *IEEE Transactions on Power Delivery*, **2015**, 30, 368-376	4.3	71
83	A Positive-Sequence Directional Relaying Algorithm for Series-Compensated Line. *IEEE Transactions on Power Delivery*, **2010**, 25, 2288-2298	4.3	69
82	Secured Zone 3 Protection During Stressed Condition. *IEEE Transactions on Power Delivery*, **2015**, 30, 89-96	4.3	56
81	A Traveling Wave-Based Fault Location Method Using Unsynchronized Current Measurements. *IEEE Transactions on Power Delivery*, **2019**, 34, 505-513	4.3	56
80	Protection of Smart DC Microgrid With Ring Configuration Using Parameter Estimation Approach. *IEEE Transactions on Smart Grid*, **2018**, 9, 6328-6337	10.7	54
79	A Superimposed Current Based Unit Protection Scheme for DC Microgrid. *IEEE Transactions on Smart Grid*, **2018**, 9, 3917-3919	10.7	37
78	Real-Time Multiple Event Detection and Classification in Power System Using Signal Energy Transformations. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 1521-1531	11.9	37
77	An Integrated Approach for Directional Relaying of the Double-Circuit Line. *IEEE Transactions on Power Delivery*, **2011**, 26, 1783-1792	4.3	37

76	DC Ring Bus Microgrid Protection Using the Oscillation Frequency and Transient Power. *IEEE Systems Journal*, **2019**, 13, 875-884	4.3	36
75	Directional Relaying During Single-Pole Tripping Using Phase Change in Negative-Sequence Current. *IEEE Transactions on Power Delivery*, **2013**, 28, 1548-1557	4.3	34
74	An Accurate Fault Location Method for Multi-Circuit Series Compensated Transmission Lines. *IEEE Transactions on Power Systems*, **2017**, 32, 572-580	7	30
73	. *IEEE Transactions on Power Delivery*, **2016**, 31, 228-235	4.3	30
72	Directional relaying for double circuit line with series compensation. *IET Generation, Transmission and Distribution*, **2013**, 7, 405-413	2.5	28
71	Adaptive distance relay setting for series compensated line. *International Journal of Electrical Power and Energy Systems*, **2013**, 52, 198-206	5.1	28
70	. *IEEE Transactions on Power Systems*, **2017**, 32, 4843-4850	7	26
69	Wide area measurement based protection support during power swing. *International Journal of Electrical Power and Energy Systems*, **2014**, 63, 546-554	5.1	26
68	Online voltage stability and load margin assessment using wide area measurements. *International Journal of Electrical Power and Energy Systems*, **2019**, 108, 392-401	5.1	22
67	Directional Relaying in the Presence of a Thyristor-Controlled Series Capacitor. *IEEE Transactions on Power Delivery*, **2013**, 28, 628-636	4.3	21
66	MVDC Microgrid Protection Using a Centralized Communication With a Localized Backup Scheme of Adaptive Parameters. *IEEE Transactions on Power Delivery*, **2019**, 34, 869-878	4.3	21
65	Voltage control of PV inverter connected to unbalanced distribution system. *IET Renewable Power Generation*, **2019**, 13, 1587-1594	2.9	19
64	Power Network Protection Using Wide-Area Measurements Considering Uncertainty in Data Availability. *IEEE Systems Journal*, **2018**, 12, 3358-3368	4.3	18
63	A Three-Terminal Line Protection Scheme Immune to Power Swing. *IEEE Transactions on Power Delivery*, **2016**, 31, 999-1006	4.3	18
62	Synchrophasor-Based Intelligent Autoreclosing Scheme for Series Compensated Transmission Lines. *IEEE Transactions on Power Delivery*, **2017**, 32, 2255-2262	4.3	17
61	Synchronised data-based adaptive backup protection for series compensated line. *IET Generation, Transmission and Distribution*, **2014**, 8, 1979-1986	2.5	17
60	Parameter Estimation of Resonant Fault Current Limiter for Protection and Stability Analysis. *IEEE Transactions on Power Systems*, **2017**, 32, 2288-2295	7	16
59	Precise Traveling Wave-Based Transmission Line Fault Location Method Using Single-Ended Data. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 5197-5207	11.9	16

58	Online identification of protection element failure using wide area measurements. *IET Generation, Transmission and Distribution*, **2015**, 9, 115-123	2.5	15
57	Adaptive Direct Underreaching Transfer Trip Protection Scheme for the Three-Terminal Line. *IEEE Transactions on Power Delivery*, **2015**, 30, 2383-2391	4.3	15
56	Detection and Classification of Faults in Solar PV Array Using Thevenin Equivalent Resistance. *IEEE Journal of Photovoltaics*, **2020**, 10, 644-654	3.7	15
55	Accurate Phasor Estimation During Power Swing. *IEEE Transactions on Power Delivery*, **2016**, 31, 130-137	4.3	14
54	Adaptive Zone-1 Setting Following Structural and Operational Changes in Power System. *IEEE Transactions on Power Delivery*, **2018**, 33, 560-569	4.3	14
53	Mitigating Subsynchronous Resonance Using Synchrophasor Data Based Control of Wind Farms. *IEEE Transactions on Power Delivery*, **2020**, 35, 364-376	4.3	14
52	Real-Time Event Classification in Power System With Renewables Using Kernel Density Estimation and Deep Neural Network. *IEEE Transactions on Smart Grid*, **2019**, 10, 6849-6859	10.7	12
51	Real-Time Analysis of Power System Protection Schemes Using Synchronized Data. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 3831-3839	11.9	12
50	Detecting fault during power swing for a series compensated line **2011**,		11
49	Wide Area Predictive Control of Power System Considering Communication Delay and Data Drops. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 3243-3253	11.9	11
48	Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *IEEE Transactions on Power Systems*, **2020**, 35, 362-373	7	11
47	Adaptive Distance Relaying for Distribution Lines Connecting Inverter-Interfaced Solar PV Plant. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2300-2309	8.9	11
46	Adaptive Distance Protection for Lines Connecting Converter-Interfaced Renewable Plants. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 1-1	5.6	10
45	Adaptive □plane line differential protection. *IET Generation, Transmission and Distribution*, **2017**, 11, 2468-2477	2.5	10
44	Cosine Similarity Based Directional Comparison Scheme for Subcycle Transmission Line Protection. *IEEE Transactions on Power Delivery*, **2020**, 35, 2159-2167	4.3	9
43	Model Verification of Fixed Series Compensation Devices Using Synchronized Data. *IEEE Transactions on Power Delivery*, **2016**, 31, 174-181	4.3	8
42	Faulty Line Identification Algorithm for Secured Backup Protection Using PMUs. *Electric Power Components and Systems*, **2017**, 45, 491-504	1	7
41	Reducing current transformer saturation effect in phasor measurement unit. *International Transactions on Electrical Energy Systems*, **2016**, 26, 1397-1407	2.2	7

40	Power quality disturbances classification using support vector machines with optimised time-frequency kernels. *International Journal of Power Electronics*, **2012**, 4, 181	0.2	7
39	Faulted section identification for DC distribution systems using smart meter data. *IET Generation, Transmission and Distribution*, **2018**, 12, 1030-1037	2.5	6
38	Maximum efficiency of flexible AC transmission systems. *International Journal of Electrical Power and Energy Systems*, **2006**, 28, 581-588	5.1	6
37	Travelling-wave-based protection of transmission line using single-end data. *IET Generation, Transmission and Distribution*, **2019**, 13, 4659-4666	2.5	6
36	Adaptive Relay Setting for Protection of Distribution System with Solar PV **2018**,		6
35	Resilient protection scheme preserving system integrity during stressed condition. *IET Generation, Transmission and Distribution*, **2019**, 13, 3188-3194	2.5	5
34	Real-time event identification using synchrophasor data from selected buses. *IET Generation, Transmission and Distribution*, **2018**, 12, 1664-1671	2.5	5
33	Supervising distance relay during power swing using synchrophasor measurements. *IET Generation, Transmission and Distribution*, **2017**, 11, 4136-4145	2.5	5
32	Model Free Traveling Wave Based Fault Location Method for Series Compensated Transmission Line. *IEEE Access*, **2020**, 8, 193128-193137	3.5	5
31	An Adaptive Underfrequency Load Shedding Scheme in the Presence of Solar Photovoltaic Plants. *IEEE Systems Journal*, **2021**, 15, 1235-1244	4.3	5
30	Adaptive Fault Type Classification for Transmission Network Connecting Converter-Interfaced Renewable Plants. *IEEE Systems Journal*, **2021**, 15, 4025-4036	4.3	5
29	A Spectrum Similarity Approach for Identifying Coherency Change Patterns in Power System Due to Variability in Renewable Generation. *IEEE Transactions on Power Systems*, **2019**, 34, 3769-3779	7	4
28	Synchrophasor-Assisted Prediction of Stability/Instability of a Power System. *International Journal of Emerging Electric Power Systems*, **2013**, 14, 1-8	1.4	4
27	Supervisory Protection of Islanded Network Using Synchrophasor Data. *IEEE Transactions on Smart Grid*, **2019**, 10, 1772-1780	10.7	4
26	A Cosine Similarity-Based Centralized Protection Scheme for dc Microgrids. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 5646-5656	5.6	4
25	A Local measurement based protection technique for distribution system with photovoltaic plants. *IET Renewable Power Generation*, **2020**, 14, 996-1003	2.9	3
24	A Positive Sequence Relaying Method for Solar Photovoltaic Integrated Distribution System. *IEEE Transactions on Power Delivery*, **2020**, 1-1	4.3	3
23	Time-Domain Protection and Fault Location of Wye-Connected Shunt Capacitor Banks Using Superimposed Current and Differential Voltage. *IEEE Transactions on Power Delivery*, **2020**, 1-1	4.3	3

22	Investigating the impact of protection system reinforcement cost on the consumers associated with renewable integrated distribution network. *IET Generation, Transmission and Distribution*, **2019** , 13, 1572-1588	2.5	3
21	A Traveling Wave Based Method for Protection of Shunt Capacitor Bank. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	3
20	Wide-area measurement system-based supervision of protection schemes with minimum number of phasor measurement units. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	2
19	Protection of Networked Microgrids using Relays with Multiple Setting Groups. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	2
18	PMU based real time power system state estimation using ePHASORsim **2016**,		2
17	Protecting Distribution Systems With Inverter-Interfaced PV Plants Using Q-Axis Components. *IEEE Systems Journal*, **2021**, 1-11	4.3	2
16	Adaptive Unit Protection for Lines Connecting Large Solar Plants Using Incremental Current Ratio. *IEEE Systems Journal*, **2021**, 1-12	4.3	2
15	Model-free angle stability assessment using wide area measurements. *International Journal of Electrical Power and Energy Systems*, **2020**, 120, 105972	5.1	1
14	Testing a communication assisted protection scheme for AC microgrid in a laboratory setup **2017**,		1
13	Improved Transverse Current Differential Protection Resistant to Power Swing. *INAE Letters*, **2016**, 1, 53-58	0.7	1
12	Wide Area backup protection using weighted apparent impedance **2015**,		1
11	Time-Domain Techniques for Line Protection Using Three-Dimensional Cartesian Coordinates. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	1
10	PCA-LSTM Learning Networks With Markov Chain Models for Online Classification of Cyber-Induced Outages in Power System. *IEEE Systems Journal*, **2021**, 15, 3948-3957	4.3	1
9	Guest Editorial Special Section on Frontiers of Power System Protection. *IEEE Transactions on Power Delivery*, **2016**, 31, 1785-1786	4.3	0
8	Accurate Superimposed Component Estimation for Improved Relay Performance During Power Swing. *IEEE Systems Journal*, **2022**, 1-11	4.3	0
7	Subcycle transmission line protection using time-domain similarity measure. *International Journal of Electrical Power and Energy Systems*, **2022**, 137, 107766	5.1	0
6	Time-Domain Directional Relaying Using Only Fault Current for Distribution System with PV Plant. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	0
5	Bus protection in systems with inverter interfaced renewables using composite sequence currents. *International Journal of Electrical Power and Energy Systems*, **2022**, 136, 107665	5.1	0

List of Publications

4	A Hybrid Time-Domain Protection Scheme for Series Compensated Transmission Lines. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	0
3	Travelling Wave Based Directional Relaying Without Using Voltage Transients. *IEEE Transactions on Power Delivery*, **2021**, 36, 3274-3277	4.3	0
2	Wavelet probability distribution mapping for detection and correction of dynamic data injection attacks in WAMS. *International Journal of Electrical Power and Energy Systems*, **2022**, 134, 107447	5.1	0
1	A Transfer Trip Scheme to Supervise Zone 3 Operation. *INAE Letters*, **2016**, 1, 9-13	0.7	