Jovica V MilanoviÄ‡

List of Publications by Year
in descending order

154 papers	5,248 citations	76294 40 h-index	95218 68 g-index
154 all docs	154 docs citations	154 times ranked	3364 citing authors

#	Article	IF	Citations
1	Definition and Classification of Power System Stability â€" Revisited & Extended. IEEE Transactions on Power Systems, 2021, 36, 3271-3281.	4.6	404
2	Dynamic Contribution of DFIG-Based Wind Plants to System Frequency Disturbances. IEEE Transactions on Power Systems, 2009, 24, 859-867.	4.6	380
3	Reactive Power Control Strategies for DFIG-Based Plants. IEEE Transactions on Energy Conversion, 2007, 22, 389-396.	3.7	271
4	International Industry Practice on Power System Load Modeling. IEEE Transactions on Power Systems, 2013, 28, 3038-3046.	4.6	230
5	Wind Farm Model Aggregation Using Probabilistic Clustering. IEEE Transactions on Power Systems, 2013, 28, 309-316.	4.6	163
6	Overview and Comparative Analysis of Gas Turbine Models for System Stability Studies. IEEE Transactions on Power Systems, 2008, 23, 108-118.	4.6	150
7	Probabilistic Framework for Transient Stability Assessment of Power Systems With High Penetration of Renewable Generation. IEEE Transactions on Power Systems, 2017, 32, 3078-3088.	4.6	129
8	Existing approaches and trends in uncertainty modelling and probabilistic stability analysis of power systems with renewable generation. Renewable and Sustainable Energy Reviews, 2019, 101, 168-180.	8.2	126
9	Damping of inter-area oscillations in mixed AC/DC networks using WAMS based supplementary controller. IEEE Transactions on Power Systems, 2013, 28, 1160-1169.	4.6	122
10	Online Identification of Power System Dynamic Signature Using PMU Measurements and Data Mining. IEEE Transactions on Power Systems, 2016, 31, 1760-1768.	4.6	116
11	Probabilistic Framework for Assessing the Accuracy of Data Mining Tool for Online Prediction of Transient Stability. IEEE Transactions on Power Systems, 2014, 29, 377-385.	4.6	113
12	Generic Model of Active Distribution Network for Large Power System Stability Studies. IEEE Transactions on Power Systems, 2013, 28, 3126-3133.	4.6	105
13	Forecasting Demand Flexibility of Aggregated Residential Load Using Smart Meter Data. IEEE Transactions on Power Systems, 2018, 33, 5446-5455.	4.6	93
14	Global Minimization of Financial Losses Due to Voltage Sags With FACTS Based Devices. IEEE Transactions on Power Delivery, 2010, 25, 298-306.	2.9	89
15	Validation of Equivalent Dynamic Model of Active Distribution Network Cell. IEEE Transactions on Power Systems, 2013, 28, 2101-2110.	4.6	86
16	Priority Ranking of Critical Uncertainties Affecting Small-Disturbance Stability Using Sensitivity Analysis Techniques. IEEE Transactions on Power Systems, 2017, 32, 2629-2639.	4.6	72
17	Modeling of FACTS Devices for Voltage Sag Mitigation Studies in Large Power Systems. IEEE Transactions on Power Delivery, 2010, 25, 3044-3052.	2.9	71
18	Dynamic load modelling based on measurements in medium voltage distribution network. Electric Power Systems Research, 2008, 78, 228-238.	2.1	70

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19	Tuning of a Damping Controller for Multiterminal VSC-HVDC Grids Using the Probabilistic Collocation Method. IEEE Transactions on Power Delivery, 2014, 29, 318-326.	2.9	69
20	Techno-Economic Contribution of FACTS Devices to the Operation of Power Systems With High Level of Wind Power Integration. IEEE Transactions on Power Systems, 2012, 27, 1414-1421.	4.6	67
21	Artificial-Intelligence-Based Methodology for Load Disaggregation at Bulk Supply Point. IEEE Transactions on Power Systems, 2015, 30, 795-803.	4.6	64
22	Global Voltage Sag Mitigation With FACTS-Based Devices. IEEE Transactions on Power Delivery, 2010, 25, 2842-2850.	2.9	62
23	Minimization of Voltage Sag Costs by Optimal Reconfiguration of Distribution Network Using Genetic Algorithms. IEEE Transactions on Power Delivery, 2007, 22, 2271-2278.	2.9	61
24	Modeling of Interconnected Critical Infrastructure Systems Using Complex Network Theory. IEEE Transactions on Smart Grid, 2018, 9, 4637-4648.	6.2	60
25	Assessing the Applicability of Uncertainty Importance Measures for Power System Studies. IEEE Transactions on Power Systems, 2016, 31, 2076-2084.	4.6	59
26	Statistical Estimation of the Source and Level of Voltage Unbalance in Distribution Networks. IEEE Transactions on Power Delivery, 2012, 27, 1450-1460.	2.9	57
27	Probabilistic Small-Disturbance Stability Assessment of Uncertain Power Systems Using Efficient Estimation Methods. IEEE Transactions on Power Systems, 2014, 29, 2509-2517.	4.6	56
28	Efficient Estimation of the Probability of Small-Disturbance Instability of Large Uncertain Power Systems. IEEE Transactions on Power Systems, 2016, 31, 1063-1072.	4.6	56
29	Probabilistic Assessment of Financial Losses in Distribution Network Due to Fault-Induced Process Interruptions Considering Process Immunity Time. IEEE Transactions on Power Delivery, 2015, 30, 1478-1486.	2.9	55
30	Voltage Sag Estimation in Sparsely Monitored Power Systems Based on Deep Learning and System Area Mapping. IEEE Transactions on Power Delivery, 2018, 33, 3162-3172.	2.9	53
31	Probabilistic Evaluation of Damping Controller in Networks With Multiple VSC-HVDC Lines. IEEE Transactions on Power Systems, 2013, 28, 367-376.	4.6	50
32	Identification of Critical Parameters Affecting Voltage and Angular Stability Considering Load-Renewable Generation Correlations. IEEE Transactions on Power Systems, 2019, 34, 2859-2869.	4.6	49
33	The Influence of Modeling Transformer Age Related Failures on System Reliability. IEEE Transactions on Power Systems, 2015, 30, 970-979.	4.6	47
34	Risk-Based Assessment of Financial Losses Due to Voltage Sag. IEEE Transactions on Power Delivery, 2011, 26, 492-500.	2.9	46
35	Recommended Parameter Values and Ranges of Most Frequently Used Static Load Models. IEEE Transactions on Power Systems, 2018, 33, 5923-5934.	4.6	46
36	The Influence of Induction Motors on Voltage Sag Propagation—Part I: Accounting for the Change in Sag Characteristics. IEEE Transactions on Power Delivery, 2008, 23, 1063-1071.	2.9	45

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37	Assessment of the Economic Value of Voltage Sag Mitigation Devices to Sensitive Industrial Plants. IEEE Transactions on Power Delivery, 2015, 30, 2374-2382.	2.9	44
38	Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. IEEE Transactions on Power Systems, 2020, 35, 3729-3738.	4.6	43
39	Assessment of techno-economic contribution of FACTS devices to power system operation. Electric Power Systems Research, 2010, 80, 1247-1255.	2.1	42
40	Estimation of Cost of Downtime of Industrial Process Due to Voltage Sags. IEEE Transactions on Power Delivery, 2011, 26, 576-587.	2.9	41
41	The Probabilistic Collocation Method for Power-System Damping and Voltage Collapse Studies in the Presence of Uncertainties. IEEE Transactions on Power Systems, 2013, 28, 2253-2262.	4.6	41
42	Identification of Weak Areas of Network Based on Exposure to Voltage Sagsâ€"Part II: Assessment of Network Performance Using Sag Severity Index. IEEE Transactions on Power Delivery, 2015, 30, 2401-2409.	2.9	39
43	Risk-Based Small-Disturbance Security Assessment of Power Systems. IEEE Transactions on Power Delivery, 2015, 30, 590-598.	2.9	39
44	Probabilistic Framework for Online Identification of Dynamic Behavior of Power Systems With Renewable Generation. IEEE Transactions on Power Systems, 2018, 33, 45-54.	4.6	39
45	Automatic Identification of Power System Load Models Based on Field Measurements. IEEE Transactions on Power Systems, 2018, 33, 3162-3171.	4.6	38
46	Estimation and Validation of Characteristic Load Profile Through Smart Grid Trials in a Medium Voltage Distribution Network. IEEE Transactions on Power Systems, 2018, 33, 1848-1859.	4.6	35
47	Probabilistic stability analysis: the way forward for stability analysis of sustainable power systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160296.	1.6	34
48	On capability of different FACTS devices to mitigate a range of power quality phenomena. IET Generation, Transmission and Distribution, 2017, 11, 1202-1211.	1.4	33
49	Forecasting voltage harmonic distortion in residential distribution networks using smart meter data. International Journal of Electrical Power and Energy Systems, 2022, 136, 107653.	3.3	31
50	Probabilistic assessment of wind farm annual energy production. Electric Power Systems Research, 2012, 89, 70-79.	2.1	30
51	Zonal Mitigation of Power Quality Using FACTS Devices for Provision of Differentiated Quality of Electricity Supply in Networks With Renewable Generation. IEEE Transactions on Power Delivery, 2017, 32, 1975-1985.	2.9	30
52	Probabilistic Estimation of Distribution Network Performance With Respect to Voltage Sags and Interruptions Considering Network Protection Settingâ€"Part I: The Methodology. IEEE Transactions on Power Delivery, 2018, 33, 42-51.	2.9	30
53	Generic Failure-Risk Assessment of Industrial Processes due to Voltage Sags. IEEE Transactions on Power Delivery, 2009, 24, 2405-2414.	2.9	27
54	On unreliability of exponential load models. Electric Power Systems Research, 1999, 49, 1-9.	2.1	26

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55	Identification of Weak Areas of Power Network Based on Exposure to Voltage Sagsâ€"Part I: Development of Sag Severity Index for Single-Event Characterization. IEEE Transactions on Power Delivery, 2015, 30, 2392-2400.	2.9	26
56	Day-Ahead Prediction and Shaping of Dynamic Response of Demand at Bulk Supply Points. IEEE Transactions on Power Systems, 2016, 31, 3100-3108.	4.6	26
57	The Influence of Load on Risk-Based Small-Disturbance Security Profile of a Power System. IEEE Transactions on Power Systems, 2018, 33, 557-566.	4.6	25
58	Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. IEEE Transactions on Power Systems, 2020, 35, 1822-1833.	4.6	25
59	Monitor Placement for Reliable Estimation of Voltage Sags in Power Networks. IEEE Transactions on Power Delivery, 2012, 27, 936-944.	2.9	24
60	Methodology for Estimation of Dynamic Response of Demand Using Limited Data. IEEE Transactions on Power Systems, 2015, 30, 1288-1297.	4.6	24
61	Probabilistic Estimation of Distribution Network Performance With Respect to Voltage Sags and Interruptions Considering Network Protection Settingâ€"Part II: Economic Assessment. IEEE Transactions on Power Delivery, 2018, 33, 52-61.	2.9	24
62	Study of frequency response in power system with renewable generation and energy storage. , 2016, , .		23
63	Methodology for assessment of financial losses due to voltage sags and short interruptions. , 2007, , .		22
64	A framework to assess the effect of reduction in inertia on system frequency response. , 2016, , .		21
65	Optimal Compensation of Transmission Lines Based on Minimisation of the Risk of Subsynchronous Resonance. IEEE Transactions on Power Systems, 2016, 31, 1038-1047.	4.6	21
66	Practical Approaches to Assessment of Harmonics Along Radial Distribution Feeders. IEEE Transactions on Power Delivery, 2019, 34, 1184-1192.	2.9	19
67	Current practice and future challenges for power quality monitoring - CIGRE WG C4.112 perspective. , 2012, , .		17
68	Identifying Generators at Risk of SSR in Meshed Compensated AC/DC Power Networks. IEEE Transactions on Power Systems, 2013, 28, 4438-4447.	4.6	17
69	Probabilistic Indicators for Assessing Age- and Loading-Based Criticality of Transformers to Cascading Failure Events. IEEE Transactions on Power Systems, 2014, 29, 2558-2566.	4.6	17
70	Quantification of Uncertainty in End-of-Life Failure Models of Power Transformers for Transmission Systems Reliability Studies. IEEE Transactions on Power Systems, 2016, 31, 4047-4056.	4.6	17
71	Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. IEEE Transactions on Smart Grid, 2020, 11, 4358-4365.	6.2	17
72	Probabilistic clustering of wind generators. , 2010, , .		16

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73	Modelling of Supercapacitor Banks for Power System Dynamics Studies. IEEE Transactions on Power Systems, 2021, 36, 3987-3996.	4.6	15
74	Distributed control of battery energy storage systems in distribution networks for voltage regulation at transmissionâ€"distribution network interconnection points. Control Engineering Practice, 2022, 119, 104988.	3.2	15
75	Probabilistic Risk Assessment of Rotor Angle Instability Using Fuzzy Inference Systems. IEEE Transactions on Power Systems, 2015, 30, 1747-1757.	4.6	14
76	Methodology for the analysis of voltage unbalance in networks with singleâ€phase distributed generation. IET Generation, Transmission and Distribution, 2017, 11, 550-559.	1.4	14
77	Effect of load models on angular and frequency stability of low inertia power networks. IET Generation, Transmission and Distribution, 2019, 13, 1520-1526.	1.4	14
78	Compound index for power quality evaluation and benchmarking. IET Generation, Transmission and Distribution, 2018, 12, 4269-4275.	1.4	13
79	Interdepedency modeling of cyber-physical systems using a weighted complex network approach. , 2017, , .		12
80	Ranking and quantifying the effects of load model parameters on power system stability. IET Generation, Transmission and Distribution, 2019, 13, 4650-4658.	1.4	12
81	Review of GB electricity distribution system's electricity security of supply, reliability and power quality in meeting UK industrial strategy requirements. IET Generation, Transmission and Distribution, 2019, 13, 3513-3523.	1.4	12
82	Identification of transient stability boundaries for power systems with multidimensional uncertainties using index-specific parametric space. International Journal of Electrical Power and Energy Systems, 2020, 123, 106152.	3.3	12
83	A step-by-step data processing guideline for load model development based on field measurements. , 2015, , .		11
84	Pathway to cost-efficient state estimation of future distribution networks. , 2016, , .		11
85	Equivalent Modelling of Wind Farms for Probabilistic Harmonic Propagation Studies. IEEE Transactions on Power Delivery, 2022, 37, 603-611.	2.9	11
86	Guidelines for Power quality monitoring - Results from CIGRE/CIRED JWG C4.112. , 2014, , .		10
87	Impact of penetration of non-synchronous generators on power system dynamics. , 2015, , .		10
88	Assessment of the impact of demand side management on power system small signal stability. , 2017, , .		10
89	Cyber-physical system failure analysis based on Complex Network theory. , 2017, , .		10
90	Flexibility Exchange Strategy to Facilitate Congestion and Voltage Profile Management in Power Networks. IEEE Transactions on Smart Grid, 2019, 10, 4786-4794.	6.2	10

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91	Methodology for Evaluation of Risk of Subsynchronous Resonance in Meshed Compensated Networks. IEEE Transactions on Power Systems, 2014, 29, 815-823.	4.6	9
92	Application of data analytics for advanced demand profiling of residential load using smart meter data. , 2017, , .		9
93	Techno-economic analysis of global power quality mitigation strategy for provision of differentiated quality of supply. International Journal of Electrical Power and Energy Systems, 2019, 107, 159-166.	3.3	9
94	Assessment of Power quality performance in distribution networks part I - Measurement campaign and initial analysis. , 2016, , .		8
95	Optimisation framework for development of costâ€effective monitoring in distribution networks. IET Generation, Transmission and Distribution, 2016, 10, 240-246.	1.4	8
96	The influence of different storage technologies on large power system frequency response. , 2016, , .		8
97	A Survey on Demand Side Management Potential in South-East Europe to Support Transmission Network Flexibility. , 2018, , .		8
98	Methodology for Optimal Deployment of Corrective Control Measures to Ensure Transient Stability of Uncertain Power Systems. IEEE Transactions on Power Systems, 2021, 36, 1677-1687.	4.6	8
99	Assessment of the robustness of cyber-physical systems using small-worldness of weighted complex networks. International Journal of Electrical Power and Energy Systems, 2021, 125, 106486.	3.3	8
100	Equivalent Modelling of Hybrid RES Plant for Power System Transient Stability Studies. IEEE Transactions on Power Systems, 2022, 37, 847-859.	4.6	8
101	Quantification of aleatory and epistemic uncertainty in bulk power system reliability evaluation. , 2013, , .		7
102	Accuracy of ANN based methodology for load composition forecasting at bulk supply buses. , 2014, , .		7
103	Overview of power system reliability assessment considering age related failure of equipment. , 2015, , .		7
104	Analysis of Angular Threshold Criteria for Transient Instability Identification in Uncertain Power Systems. , 2019, , .		7
105	Risk-Constrained Minimization of Combined Event Detection and Decision Time for Online Transient Stability Assessment. IEEE Transactions on Smart Grid, 2021, 12, 4564-4572.	6.2	7
106	Probabilistic assessment of the impact of distributed generation and non-linear load on harmonic propagation in power networks. , 2014, , .		6
107	Measurement Based Method for Online Characterization of Generator Dynamic Behaviour in Systems With Renewable Generation. IEEE Transactions on Power Systems, 2018, 33, 6466-6475.	4.6	6
108	Assessment of Power Quality performance in distribution networks part II - Performance Indices and ranking of network buses. , 2016, , .		5

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109	Feasibility of different corrective control options for the improvement of transient stability. , 2017, , .		5
110	Statistical Assessment of the Impact of Renewable Energy Sources on Transient Stability. , 2018, , .		5
111	Probabilistic Assessment of Harmonics in a Residential Network. , 2020, , .		5
112	Estimation of Harmonics in Partly Monitored Residential Distribution Networks With Unknown Parameters and Topology. IEEE Transactions on Smart Grid, 2022, 13, 3014-3027.	6.2	5
113	Probabilistic Harmonic Estimation in Uncertain Transmission Networks Using Sequential ANNs. , 2022, , .		5
114	Optimal compensation of transmission lines based on minimisation of the risk of subsynchronous resonance. , 2016, , .		4
115	Identification of critical parameters affecting voltage stability in networks with renewable generations using sensitivity analysis methods. , 2017, , .		4
116	Composite Index for Comprehensive Assessment of Power System Transient Stability. IEEE Transactions on Power Systems, 2022, 37, 2847-2857.	4.6	4
117	Probabilistic ranking of power system loads for voltage stability studies in networks with renewable generation. , 2016, , .		3
118	Study of harmonic propagation in transmission networks with high penetration of power electronics devices. , 2017, , .		3
119	Efficient identification of critical load model parameters affecting power system voltage stability. , 2017, , .		3
120	Identifying Critical Load Locations for Power System Voltage, Angular and Frequency Stability. , 2019, , .		3
121	Probabilistic assessment of voltage control zones and visualization using choropleth map. , 2017, , .		3
122	Software tool for automated design and cost benefit analysis of offshore grid. , 2011, , .		2
123	Foreword for the Special Section on Analysis and Simulation of Very Large Power Systems. IEEE Transactions on Power Systems, 2013, 28, 4885-4887.	4.6	2
124	Impact of measurement signals on the accuracy of online identification of power system dynamic signature. , 2015, , .		2
125	Application of sequential testing problem to online detection of transient stability status for power systems. , 2016, , .		2
126	Fast online identification of power system dynamic behavior. , 2017, , .		2

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127	Contribution of Advanced Demand Side Management to Angular Stability of Interconnected Transmission Networks. , 2019, , .		2
128	Assessing the Applicability of Complex Network Theory Models and Importance Measures to Vulnerability Studies of Cyber-physical Systems. , 2019, , .		2
129	Existing Approaches to Wide-scale DSM Deployment to Facilitate Transmission Network Flexibility - Results of the Survey in South-East Europe. , 2019, , .		2
130	Influence of Transformer Rating on Power Quality Indices in Low Voltage Residential Networks. , 2020, , .		2
131	Probabilistic Sizing of Islanded Microgrid Considering Temperature Effect on PV Array. , 2022, , .		2
132	A heuristic approach for optimal monitor placement for fault location. , 2011, , .		1
133	Applying process immunity time to assess annual industrial process trips. , 2014, , .		1
134	The effect of temporal and spatial variation of harmonic sources on annual harmonic performance of distribution networks. , 2014, , .		1
135	Feasibility study of applicability of recurrence quantification analysis for clustering of power system dynamic responses. , 2016, , .		1
136	An approach to controlled islanding based on PMU measurements. , 2017, , .		1
137	Influence of uncertainties and parameter structural dependencies in distribution system state estimation. IET Generation, Transmission and Distribution, 2018, 12, 3279-3285.	1.4	1
138	The Role of Energy Storage Systems in Reducing Effect of Load Models on Frequency Dynamics and Large Disturbance Rotor Angle Stability. , 2019, , .		1
139	The Influence of Advanced DSM on Performance of Distribution Networks with Renewable Generation. , 2020, , .		1
140	Comparative Analysis of Integral-Based Indices for On-line Assessment of Power System Transient Stability. , 2021, , .		1
141	Accuracy of Probabilistic Harmonic Estimation in Sparsely Monitored Transmission Networks. , 2022, , .		1
142	Index for ranking generators based on risk of subsynchronous resonance in the network. , 2013, , .		0
143	Probabilistic risk assessment of rotor angle instability using fuzzy inference systems. , 2015, , .		0
144	Framework for sensitivity analysis of stability of torsional modes. , 2015, , .		0

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145	Quasi-independent voltage-reactive power zone controller. , 2017, , .		0
146	Optimal monitor placement for voltage unbalance based on distribution network state estimation. , 2017, , .		0
147	The Influence of Load on Risk-Based Small-Disturbance Security Profile of a Power System. , 2018, , .		0
148	Impact of Demand Side Management on Angular Stability of Power Systems with Renewable Generation. , 2018, , .		0
149	A Survey on Electrical Energy Storage Potential in South-East Europe to Support Transmission Network Flexibility. , 2018, , .		0
150	Towards Optimal Management and Control of Virtual Storage Plants for Flexible Operation in Future Power Networks. , 2019, , .		0
151	Increased Frequency and Voltage Interactions Affecting Frequency and Transient Stability in Networks with Large Penetration of Renewable Generation. , 2019, , .		0
152	Non-heuristic Identification of the Optimal Number of Oscillation Patterns in Uncertain Power Systems. , 2020, , .		0
153	Assessment of the Impact of Load Modelling and DSM on Combined Power System Angular and Frequency Stability Using Composite Stability Index. , 2021, , .		0
154	Probabilistic Assessment of the Effect of a Spatially Distributed Hybrid Renewable Energy Source Plant on System Transient Stability. , 2022, , .		0