

# Lamine Mili

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/542869/publications.pdf>

Version: 2024-02-01

102  
papers

3,735  
citations

172457

29  
h-index

144013

57  
g-index

122  
all docs

122  
docs citations

122  
times ranked

2770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environomic-Based Social Demand Response in Cyber-Physical-Social Power Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1302-1306.	3.0	6
2	A Real-Time Enhanced Thevenin Equivalent Parameter Estimation Method for PLL Synchronization Stability Control in VSC. IEEE Transactions on Power Delivery, 2022, 37, 2650-2660.	4.3	1
3	Enhanced power flow solution in complex plane. International Journal of Electrical Power and Energy Systems, 2022, 135, 107501.	5.5	2
4	Measurement placement in electric power transmission and distribution grids: Review of concepts, methods, and research needs. IET Generation, Transmission and Distribution, 2022, 16, 805-838.	2.5	4
5	An Adaptive-Importance-Sampling-Enhanced Bayesian Approach for Topology Estimation in an Unbalanced Power Distribution System. IEEE Transactions on Power Systems, 2022, 37, 2220-2232.	6.5	8
6	Propagating Parameter Uncertainty in Power System Nonlinear Dynamic Simulations Using a Koopman Operator-Based Surrogate Model. IEEE Transactions on Power Systems, 2022, 37, 3157-3160.	6.5	5
7	Robust Dynamic Mode Decomposition. IEEE Access, 2022, 10, 65473-65484.	4.2	6
8	An Analytical Method for Disturbance Propagation Investigation Based on the Electromechanical Wave Approach. IEEE Transactions on Power Systems, 2021, 36, 991-1001.	6.5	12
9	Roles of Dynamic State Estimation in Power System Modeling, Monitoring and Operation. IEEE Transactions on Power Systems, 2021, 36, 2462-2472.	6.5	104
10	Real-Time LCC-HVDC Maximum Emergency Power Capacity Estimation Based on Local PMUs. IEEE Transactions on Power Systems, 2021, 36, 1049-1058.	6.5	14
11	A Bayesian Approach for Estimating Uncertainty in Stochastic Economic Dispatch Considering Wind Power Penetration. IEEE Transactions on Sustainable Energy, 2021, 12, 671-681.	8.8	14
12	Observability Analysis of a Power System Stochastic Dynamic Model Using a Derivative-Free Approach. IEEE Transactions on Power Systems, 2021, 36, 5834-5845.	6.5	13
13	An Iterative Response-Surface-Based Approach for Chance-Constrained AC Optimal Power Flow Considering Dependent Uncertainty. IEEE Transactions on Smart Grid, 2021, 12, 2696-2707.	9.0	12
14	Alleviating Fractal and Ill-Conditioning Problems of the AC Power Flow Using a Polynomial Form. IEEE Transactions on Network Science and Engineering, 2021, 8, 2495-2505.	6.4	2
15	Derivative-Free Observability Analysis of a Stochastic Dynamical System. IEEE Transactions on Network Science and Engineering, 2021, 8, 2426-2437.	6.4	3
16	Dynamic State Estimation for Power System Control and Protection. IEEE Transactions on Power Systems, 2021, 36, 5909-5921.	6.5	66
17	A Surrogate-Enhanced Scheme in Decision Making under Uncertainty in Power Systems. , 2021, , .		0
18	Multi-Dimensional Output-Oriented Power System Resilience based on Degraded Functionality. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	A Power Flow Method for Power Distribution Systems Based on a Sinusoidal Transformation to a Convex Quadratic Form. , 2021, , .		0
20	A Derivative-Free Observability Analysis Method of Stochastic Power Systems. , 2021, , .		0
21	Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. IEEE Transactions on Smart Grid, 2020, 11, 1593-1603.	9.0	15
22	A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. IEEE Transactions on Power Systems, 2020, 35, 1109-1119.	6.5	22
23	Robust Speech Filter and Voice Encoder Parameter Estimation Using the Phaseâ€“Phase Correlator. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 592-604.	5.8	1
24	Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. IEEE Transactions on Power Systems, 2020, 35, 2443-2451.	6.5	26
25	Multifractal analysis of geomagnetically induced currents using wavelet leaders. Journal of Applied Geophysics, 2020, 173, 103920.	2.1	4
26	An Adaptive Bayesian Parameter Estimation of a Synchronous Generator Under Gross Errors. IEEE Transactions on Industrial Informatics, 2020, 16, 5088-5098.	11.3	33
27	Uncertainty Quantification in Stochastic Economic Dispatch using Gaussian Process Emulation. , 2020, , .		3
28	A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. IEEE Transactions on Smart Grid, 2020, 11, 5431-5441.	9.0	67
29	Real-Time Modal Analysis of Electric Power Gridsâ€“ The Need for Dynamic State Estimation. , 2020, , .		1
30	Robust Medium-Voltage Distribution System State Estimation using Multi-Source Data. , 2020, , .		12
31	A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. IEEE Transactions on Power Systems, 2020, 35, 4756-4768.	6.5	23
32	Robust Unscented Unbiased Minimum-Variance Estimator for Nonlinear System Dynamic State Estimation With Unknown Inputs. IEEE Signal Processing Letters, 2020, 27, 376-380.	3.6	11
33	A resilience assessment approach for power system from perspectives of system and component levels. International Journal of Electrical Power and Energy Systems, 2020, 118, 105837.	5.5	38
34	Probabilistic Power Flow Based on a Gaussian Process Emulator. IEEE Transactions on Power Systems, 2020, 35, 3278-3281.	6.5	26
35	Propagating Uncertainty in Power System Dynamic Simulations Using Polynomial Chaos. IEEE Transactions on Power Systems, 2019, 34, 338-348.	6.5	65
36	Unscented Kalman Filter-Based Unbiased Minimum-Variance Estimation for Nonlinear Systems With Unknown Inputs. IEEE Signal Processing Letters, 2019, 26, 1162-1166.	3.6	27

#	ARTICLE	IF	CITATIONS
37	Constrained Robust Unscented Kalman Filter for Generalized Dynamic State Estimation. IEEE Transactions on Power Systems, 2019, 34, 3637-3646.	6.5	38
38	Power System Dynamic State Estimation: Motivations, Definitions, Methodologies, and Future Work. IEEE Transactions on Power Systems, 2019, 34, 3188-3198.	6.5	417
39	Robust complex-valued Levenberg-Marquardt algorithm as applied to power flow analysis. International Journal of Electrical Power and Energy Systems, 2019, 113, 383-392.	5.5	18
40	Probabilistic Power Flow Calculation and Variance Analysis Based on Hierarchical Adaptive Polynomial Chaos-ANOVA Method. IEEE Transactions on Power Systems, 2019, 34, 3316-3325.	6.5	43
41	A Theoretical Framework of Robust $H_\infty$ Unscented Kalman Filter and Its Application to Power System Dynamic State Estimation. IEEE Transactions on Signal Processing, 2019, 67, 2734-2746.	5.3	65
42	Effects of Producer and Transmission Reliability on the Sustainability Assessment of Power System Networks. Energies, 2019, 12, 546.	3.1	3
43	A Hybrid Framework Combining Model-Based and Data-Driven Methods for Hierarchical Decentralized Robust Dynamic State Estimation. , 2019, , .		5
44	A New Multi-Scale State Estimation Framework for the Next Generation of Power Grid EMS. , 2019, , .		5
45	Polynomial-Chaos-Based Decentralized Dynamic Parameter Estimation Using Langevin MCMC. , 2019, , .		2
46	A Novel Polynomial-Chaos-Based Kalman Filter. IEEE Signal Processing Letters, 2019, 26, 9-13.	3.6	13
47	Robust Parameter Estimation of the French Power System Using Field Data. IEEE Transactions on Smart Grid, 2019, 10, 5334-5344.	9.0	23
48	Response-Surface-Based Bayesian Inference for Power System Dynamic Parameter Estimation. IEEE Transactions on Smart Grid, 2019, 10, 5899-5909.	9.0	36
49	Data-Driven Participation Factors for Nonlinear Systems Based on Koopman Mode Decomposition. , 2019, 3, 198-203.		29
50	A Decentralized $H_\infty$ Unscented Kalman Filter for Dynamic State Estimation Against Uncertainties. IEEE Transactions on Smart Grid, 2019, 10, 4870-4880.	9.0	70
51	Robust Unscented Kalman Filter for Power System Dynamic State Estimation With Unknown Noise Statistics. IEEE Transactions on Smart Grid, 2019, 10, 1215-1224.	9.0	151
52	Robust regression-based estimation of isocenter offset with subpixel precision in tomographic image reconstruction. Journal of Medical Imaging, 2019, 6, 1.	1.5	0
53	A Framework for Robust Hybrid State Estimation With Unknown Measurement Noise Statistics. IEEE Transactions on Industrial Informatics, 2018, 14, 1866-1875.	11.3	75
54	Robust Data Filtering for Estimating Electromechanical Modes of Oscillation via the Multichannel Prony Method. IEEE Transactions on Power Systems, 2018, 33, 4134-4143.	6.5	26

#	ARTICLE	IF	CITATIONS
55	Robust Frequency Divider for Power System Online Monitoring and Control. IEEE Transactions on Power Systems, 2018, 33, 4414-4423.	6.5	30
56	A Robust State Estimation Framework Considering Measurement Correlations and Imperfect Synchronization. IEEE Transactions on Power Systems, 2018, 33, 4604-4613.	6.5	40
57	A Generalized False Data Injection Attacks Against Power System Nonlinear State Estimator and Countermeasures. IEEE Transactions on Power Systems, 2018, 33, 4868-4877.	6.5	132
58	Power System Robust Decentralized Dynamic State Estimation Based on Multiple Hypothesis Testing. IEEE Transactions on Power Systems, 2018, 33, 4553-4562.	6.5	39
59	Sparse State Recovery Versus Generalized Maximum-Likelihood Estimator of a Power System. IEEE Transactions on Power Systems, 2018, 33, 1104-1106.	6.5	14
60	Robust Koopman Operator-based Kalman Filter for Power Systems Dynamic State Estimation. , 2018, , .		8
61	State Estimation for Heavily Loaded System: A Comparative Study. , 2018, , .		0
62	Probabilistic Power Flow Analysis based on the Adaptive Polynomial Chaos-ANOVA Method. , 2018, , .		7
63	Wavelet-based joint CT-MRI reconstruction. Journal of X-Ray Science and Technology, 2018, 26, 379-393.	1.0	2
64	A Robust Generalized-Maximum Likelihood Unscented Kalman Filter for Power System Dynamic State Estimation. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 578-592.	10.8	97
65	Vulnerability of the Largest Normalized Residual Statistical Test to Leverage Points. IEEE Transactions on Power Systems, 2018, 33, 4643-4646.	6.5	34
66	A Robust Data-Driven Koopman Kalman Filter for Power Systems Dynamic State Estimation. IEEE Transactions on Power Systems, 2018, 33, 7228-7237.	6.5	77
67	Statistical and Numerical Robust State Estimator for Heavily Loaded Power Systems. IEEE Transactions on Power Systems, 2018, 33, 6904-6914.	6.5	21
68	Hierarchical Decentralized Control for Enhanced Rotor Angle and Voltage Stability of Large-Scale Power Systems. IEEE Transactions on Power Systems, 2017, 32, 4783-4793.	6.5	16
69	A Robust Iterated Extended Kalman Filter for Power System Dynamic State Estimation. IEEE Transactions on Power Systems, 2017, 32, 3205-3216.	6.5	321
70	Sparse-Prior-Based Projection Distance Optimization Method for Joint CT-MRI Reconstruction. IEEE Access, 2017, 5, 20099-20110.	4.2	8
71	Robust dynamic state estimator to outliers and cyber attacks. , 2017, , .		15
72	Beamforming for Simultaneous Energy and Information Transfer and Physical-Layer Secrecy. IEEE Transactions on Wireless Communications, 2017, 16, 8026-8036.	9.2	5

#	ARTICLE	IF	CITATIONS
73	A robust extended Kalman filter for power system dynamic state estimation using PMU measurements. , 2016, , .		26
74	A Short-Term Nodal Voltage Phasor Forecasting Method Using Temporal and Spatial Correlation. IEEE Transactions on Power Systems, 2016, 31, 3881-3890.	6.5	54
75	A hierarchical decentralized coordinated voltage instability detection scheme for SVC. , 2015, , .		5
76	New Robust Estimators of Correlation and Weighted Basis Pursuit. IEEE Transactions on Signal Processing, 2015, 63, 882-894.	5.3	8
77	Design, analysis and experimental evaluation of a virtual-synchronous-machine-based STATCOM with LCL filter. , 2015, , .		3
78	Evaluation and control design of virtual-synchronous-machine-based STATCOM for grids with high penetration of renewable energy. , 2014, , .		21
79	Constrained robust estimation of power system state variables and transformer tap positions under erroneous zero-injections. , 2014, , .		0
80	Constrained Robust Estimation of Power System State Variables and Transformer Tap Positions Under Erroneous Zero-Injections. IEEE Transactions on Power Systems, 2014, 29, 1144-1152.	6.5	27
81	Analysis and design of virtual synchronous machine based STATCOM controller. , 2014, , .		30
82	Composite Power System Vulnerability Evaluation to Cascading Failures Using Importance Sampling and Antithetic Variates. IEEE Transactions on Power Systems, 2013, 28, 2321-2330.	6.5	93
83	Residential microgrid model for disaster recovery operations. , 2013, , .		11
84	Co-simulating power systems and communication network for accurate modeling and simulation of PMU based wide area measurement systems using a global event scheduling technique. , 2013, , .		9
85	Assessing the impacts of microgrids on composite power system reliability. , 2013, , .		1
86	Communication network modeling and simulation for Wide Area Measurement applications. , 2012, , .		33
87	Robustness Analysis of the Phase-Phase Correlator to White Impulsive Noise With Applications to Autoregressive Modeling. IEEE Transactions on Signal Processing, 2012, 60, 6053-6058.	5.3	7
88	Cyber security impacts on all-PMU state estimator - a case study on co-simulation platform GECCO. , 2012, , .		38
89	GECCO: Global Event-Driven Co-Simulation Framework for Interconnected Power System and Communication Network. IEEE Transactions on Smart Grid, 2012, 3, 1444-1456.	9.0	259
90	A study of communication and power system infrastructure interdependence on PMU-based wide area monitoring and protection. , 2012, , .		15

#	ARTICLE	IF	CITATIONS
91	Sustainability and reliability assessment of microgrids in a regional electricity market. Energy, 2012, 41, 192-202.	8.8	68
92	Power system and communication network co-simulation for smart grid applications. , 2011, , .		73
93	Risk-based composite power system vulnerability evaluation to cascading failures using importance sampling. , 2011, , .		21
94	A Framework for Interdisciplinary Research and Education. , 2010, , 1-14.		0
95	Books in the IEEE Press Series on Power Engineering. , 2010, , 186-187.		0
96	Robust Kalman Filter Based on a Generalized Maximum-Likelihood-Type Estimator. IEEE Transactions on Signal Processing, 2010, 58, 2509-2520.	5.3	281
97	Short-term forecasting of power flows over major transmission interties: Using Box and Jenkins ARIMA methodology. , 2010, , .		5
98	Cooperative decentralized intersection collision avoidance using Extended Kalman Filtering. , 2009, , .		11
99	A Framework for Interdisciplinary Research and Education. , 2009, , 1-19.		0
100	Books in the IEEE Press Series on Power Engineering. , 2009, , 293-293.		0
101	A Robust GM-Estimator for the Automated Detection of External Defects on Barked Hardwood Logs and Stems. IEEE Transactions on Signal Processing, 2007, 55, 3568-3576.	5.3	44
102	Robust estimation in structured linear regression. Annals of Statistics, 1996, 24, .	2.6	35