

Rj Bessa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4219197/publications.pdf>

Version: 2024-02-01

96
papers

4,628
citations

109264

35
h-index

128225

60
g-index

100
all docs

100
docs citations

100
times ranked

3587
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional model of residential consumption elasticity under dynamic tariffs. Energy and Buildings, 2022, 255, 111663.	3.1	6
2	How do Humans decide under Wind Power Forecast Uncertainty â€” an IEA Wind Task 36 Probabilistic Forecast Games and Experiments initiative. Journal of Physics: Conference Series, 2022, 2151, 012014.	0.3	3
3	Forecasting: theory and practice. International Journal of Forecasting, 2022, 38, 705-871.	3.9	256
4	Guest Editorial for the Special Section on Advances in Renewable Energy Forecasting: Predictability, Business Models and Applications in the Power Industry. IEEE Transactions on Sustainable Energy, 2022, 13, 1166-1168.	5.9	1
5	Scarcity events analysis in adequacy studies using CN2 rule mining. Energy and AI, 2022, 8, 100154.	5.8	6
6	A decision-making experiment under wind power forecast uncertainty. Meteorological Applications, 2022, 29, .	0.9	5
7	Data-Driven Anomaly Detection and Event Log Profiling of SCADA Alarms. IEEE Access, 2022, 10, 73758-73773.	2.6	4
8	Conditional parametric model for sensitivity factors in LV grids: A privacy-preserving approach. Electric Power Systems Research, 2022, 211, 108316.	2.1	2
9	A critical overview of privacy-preserving approaches for collaborative forecasting. International Journal of Forecasting, 2021, 37, 322-342.	3.9	19
10	Towards Data Markets in Renewable Energy Forecasting. IEEE Transactions on Sustainable Energy, 2021, 12, 533-542.	5.9	30
11	Forecasting conditional extreme quantiles for wind energy. Electric Power Systems Research, 2021, 190, 106636.	2.1	14
12	A deep learning method for forecasting residual market curves. Electric Power Systems Research, 2021, 190, 106756.	2.1	3
13	An unsupervised approach for fault diagnosis of power transformers. Quality and Reliability Engineering International, 2021, 37, 2834-2852.	1.4	4
14	Privacy-Preserving Distributed Learning for Renewable Energy Forecasting. IEEE Transactions on Sustainable Energy, 2021, 12, 1777-1787.	5.9	20
15	Functional Scalability and Replicability Analysis for Smart Grid Functions: The InteGrid Project Approach. Energies, 2021, 14, 5685.	1.6	3
16	The future of forecasting for renewable energy. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e365.	1.9	82
17	Architecture Model for a Holistic and Interoperable Digital Energy Management Platform. Procedia Manufacturing, 2020, 51, 1117-1124.	1.9	10
18	Simulating Tariff Impact in Electrical Energy Consumption Profiles With Conditional Variational Autoencoders. IEEE Access, 2020, 8, 131949-131966.	2.6	12

#	ARTICLE	IF	CITATIONS
19	Big data analytics for future electricity grids. <i>Electric Power Systems Research</i> , 2020, 189, 106788.	2.1	54
20	Extreme Quantiles Dynamic Line Rating Forecasts and Application on Network Operation. <i>Energies</i> , 2020, 13, 3090.	1.6	2
21	Reactive power provision by the DSO to the TSO considering renewable energy sources uncertainty. <i>Sustainable Energy, Grids and Networks</i> , 2020, 22, 100333.	2.3	17
22	On the Use of Causality Inference in Designing Tariffs to Implement More Effective Behavioral Demand Response Programs. <i>Energies</i> , 2019, 12, 2666.	1.6	3
23	Low Voltage Grid Data Visualisation with a Frame Representation and Cognitive Architecture. , 2019, , .		1
24	Data-driven predictive energy optimization in a wastewater pumping station. <i>Applied Energy</i> , 2019, 252, 113423.	5.1	57
25	Proactive management of distribution grids with chance-constrained linearized AC OPF. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 109, 332-342.	3.3	7
26	Using Causal Inference to Measure Residential Consumers Demand Response Elasticity. , 2019, , .		1
27	Through the looking glass: Seeing events in power systems dynamics. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 106, 411-419.	3.3	21
28	Optimal bidding strategy for variable-speed pump storage in day-ahead and frequency restoration reserve markets. <i>Energy Systems</i> , 2019, 10, 273-297.	1.8	2
29	Estimating the Active and Reactive Power Flexibility Area at the TSO-DSO Interface. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 4741-4750.	4.6	168
30	The challenges of estimating the impact of distributed energy resources flexibility on the TSO/DSO boundary node operating points. <i>Computers and Operations Research</i> , 2018, 96, 294-304.	2.4	58
31	Active Distribution Grid Management Based on Robust AC Optimal Power Flow. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 6229-6241.	6.2	75
32	Future Trends for Big Data Application in Power Systems. , 2018, , 223-242.		13
33	Probabilistic Low-Voltage State Estimation Using Analog-Search Techniques. , 2018, , .		7
34	Data Economy for Prosumers in a Smart Grid Ecosystem. , 2018, , .		6
35	Improving Renewable Energy Forecasting With a Grid of Numerical Weather Predictions. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 1571-1580.	5.9	189
36	On the Profitability of Variable Speed Pump-Storage-Power in Frequency Restoration Reserve. <i>Journal of Physics: Conference Series</i> , 2017, 813, 012010.	0.3	3

#	ARTICLE	IF	CITATIONS
37	Solar power forecasting with sparse vector autoregression structures. , 2017, , .		9
38	Multi-period flexibility forecast for low voltage prosumers. Energy, 2017, 141, 2251-2263.	4.5	28
39	LASSO vector autoregression structures for very short-term wind power forecasting. Wind Energy, 2017, 20, 657-675.	1.9	77
40	Probabilistic Price Forecasting for Day-Ahead and Intraday Markets: Beyond the Statistical Model. Sustainability, 2017, 9, 1990.	1.6	40
41	LV state estimation and TSO's DSO cooperation tools: results of the French field tests in the evolvdSO project. CIRED - Open Access Proceedings Journal, 2017, 2017, 1883-1887.	0.1	4
42	Towards Improved Understanding of the Applicability of Uncertainty Forecasts in the Electric Power Industry. Energies, 2017, 10, 1402.	1.6	75
43	Forecasting and setting power system operating reserves. , 2017, , 279-308.		10
44	Setting the maximum import net transfer capacity under extreme RES integration scenarios. , 2016, , .		2
45	Probabilistic forecasting of day-ahead electricity prices for the Iberian electricity market. , 2016, , .		5
46	Wind power probabilistic forecast in the Reproducing Kernel Hilbert Space. , 2016, , .		1
47	On-line quantile regression in the RKHS (Reproducing Kernel Hilbert Space) for operational probabilistic forecasting of wind power. Energy, 2016, 113, 355-365.	4.5	44
48	Optimization of the variable speed pump storage participation in frequency restoration reserve market. , 2016, , .		6
49	On the quality of the Gaussian copula for multi-temporal decision-making problems. , 2016, , .		6
50	From marginal to simultaneous prediction intervals of wind power. , 2015, , .		6
51	A modified negative selection algorithm applied in the diagnosis of voltage disturbances in distribution electrical systems. , 2015, , .		2
52	A hybrid short-term solar power forecasting tool. , 2015, , .		9
53	An ELM-AE State Estimator for real-time monitoring in poorly characterized distribution networks. , 2015, , .		3
54	Probabilistic solar power forecasting in smart grids using distributed information. International Journal of Electrical Power and Energy Systems, 2015, 72, 16-23.	3.3	101

#	ARTICLE	IF	CITATIONS
55	Power-to-Gas potential assessment of Portugal under special consideration of LCOE. , 2015, , .		5
56	Estimation of the flexibility range in the transmission-distribution boundary. , 2015, , .		49
57	Optimized Demand Response Bidding in the Wholesale Market under Scenarios of Prices and Temperatures. , 2015, , .		5
58	Spatial-Temporal Solar Power Forecasting for Smart Grids. IEEE Transactions on Industrial Informatics, 2015, 11, 232-241.	7.2	129
59	Framework for the participation of EV aggregators in the electricity market. , 2014, , .		7
60	An integrated approach for optimal coordination of wind power and hydro pumping storage. Wind Energy, 2014, 17, 829-852.	1.9	46
61	Solar power forecasting in smart grids using distributed information. , 2014, , .		9
62	Handling renewable energy variability and uncertainty in power systems operation. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 156-178.	1.9	69
63	Optimization models for an EV aggregator selling secondary reserve in the electricity market. Electric Power Systems Research, 2014, 106, 36-50.	2.1	59
64	Application of probabilistic wind power forecasting in electricity markets. Wind Energy, 2013, 16, 321-338.	1.9	41
65	Global against divided optimization for the participation of an EV aggregator in the day-ahead electricity market. Part I: Theory. Electric Power Systems Research, 2013, 95, 309-318.	2.1	76
66	Global against divided optimization for the participation of an EV aggregator in the day-ahead electricity market. Part II: Numerical analysis. Electric Power Systems Research, 2013, 95, 319-329.	2.1	51
67	Optimization Models for EV Aggregator Participation in a Manual Reserve Market. IEEE Transactions on Power Systems, 2013, 28, 3085-3095.	4.6	99
68	Demand Dispatch and Probabilistic Wind Power Forecasting in Unit Commitment and Economic Dispatch: A Case Study of Illinois. IEEE Transactions on Sustainable Energy, 2013, 4, 250-261.	5.9	127
69	Methodologies to determine operating reserves due to increased wind power. , 2013, , .		17
70	Reliability Assessment Unit Commitment with Uncertain Wind Power. Energy Systems, 2013, , 3-20.	0.5	0
71	Operational Strategies for the Optimized Coordination of Wind Farms and Hydro-Pump Units. , 2012, , .		1
72	Forecasting issues for managing a portfolio of electric vehicles under a smart grid paradigm. , 2012, , .		9

#	ARTICLE	IF	CITATIONS
73	Wind Power Trading Under Uncertainty in LMP Markets. IEEE Transactions on Power Systems, 2012, 27, 894-903.	4.6	156
74	Reserve Setting and Steady-State Security Assessment Using Wind Power Uncertainty Forecast: A Case Study. IEEE Transactions on Sustainable Energy, 2012, 3, 827-836.	5.9	58
75	Methodologies to Determine Operating Reserves Due to Increased Wind Power. IEEE Transactions on Sustainable Energy, 2012, 3, 713-723.	5.9	238
76	Time Adaptive Conditional Kernel Density Estimation for Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2012, 3, 660-669.	5.9	135
77	Operational Management Algorithms for an EV Aggregator. , 2012, , .		0
78	Economic and technical management of an aggregation agent for electric vehicles: a literature survey. European Transactions on Electrical Power, 2012, 22, 334-350.	1.0	171
79	Time-adaptive quantile-copula for wind power probabilistic forecasting. Renewable Energy, 2012, 40, 29-39.	4.3	140
80	Optimized Bidding of a EV Aggregation Agent in the Electricity Market. IEEE Transactions on Smart Grid, 2012, 3, 443-452.	6.2	183
81	Quantile-copula density forecast for wind power uncertainty modeling. , 2011, , .		19
82	Wind power forecasting, unit commitment, and electricity market operations. , 2011, , .		3
83	Setting the Operating Reserve Using Probabilistic Wind Power Forecasts. IEEE Transactions on Power Systems, 2011, 26, 594-603.	4.6	227
84	Unit commitment and operating reserves with probabilistic wind power forecasts. , 2011, , .		29
85	Models for the EV aggregation agent business. , 2011, , .		13
86	“Good” or “bad” wind power forecasts: a relative concept. Wind Energy, 2011, 14, 625-636.	1.9	49
87	Wind power forecasting uncertainty and unit commitment. Applied Energy, 2011, 88, 4014-4023.	5.1	282
88	Wind Power Forecasting in U.S. Electricity Markets. Electricity Journal, 2010, 23, 71-82.	1.3	73
89	Information theoretic learning applied to wind power modeling. , 2010, , .		1
90	Comparison of probabilistic and deterministic approaches for setting operating reserve in systems with high penetration of wind power. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
91	Risk management and optimal bidding for a wind power producer. , 2010, , .		53
92	The role of an aggregator agent for EV in the electricity market. , 2010, , .		70
93	Comparison of two new short-term wind-power forecasting systems. Renewable Energy, 2009, 34, 1848-1854.	4.3	138
94	Entropy and Correntropy Against Minimum Square Error in Offline and Online Three-Day Ahead Wind Power Forecasting. IEEE Transactions on Power Systems, 2009, 24, 1657-1666.	4.6	160
95	Operating reserve adequacy evaluation using uncertainties of wind power forecast. , 2009, , .		15
96	Improvement in wind power forecasting based on information entropy-related concepts. , 2008, , .		5