

Juan M Morales

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

7,134
citations

126901

33
h-index

76898

74
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87
all docs

87
docs citations

87
times ranked

4930
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Demand Response Model. IEEE Transactions on Smart Grid, 2010, 1, 236-242.	9.0	879
2	Decision Making Under Uncertainty in Electricity Markets. Profiles in Operations Research, 2010, , .	0.4	665
3	Point Estimate Schemes to Solve the Probabilistic Power Flow. IEEE Transactions on Power Systems, 2007, 22, 1594-1601.	6.5	585
4	Economic Valuation of Reserves in Power Systems With High Penetration of Wind Power. IEEE Transactions on Power Systems, 2009, 24, 900-910.	6.5	472
5	Short-Term Trading for a Wind Power Producer. IEEE Transactions on Power Systems, 2010, 25, 554-564.	6.5	412
6	Probabilistic power flow with correlated wind sources. IET Generation, Transmission and Distribution, 2010, 4, 641.	2.5	303
7	Offering model for a virtual power plant based on stochastic programming. Applied Energy, 2013, 105, 282-292.	10.1	290
8	A bilevel model for electricity retailers' participation in a demand response market environment. Energy Economics, 2013, 36, 182-197.	12.1	258
9	A methodology to generate statistically dependent wind speed scenarios. Applied Energy, 2010, 87, 843-855.	10.1	257
10	Scenario Reduction for Futures Market Trading in Electricity Markets. IEEE Transactions on Power Systems, 2009, 24, 878-888.	6.5	219
11	Integrating Renewables in Electricity Markets. Profiles in Operations Research, 2014, , .	0.4	194
12	Economic valuation of heat pumps and electric boilers in the Danish energy system. Applied Energy, 2016, 167, 189-200.	10.1	173
13	Pricing Electricity in Pools With Wind Producers. IEEE Transactions on Power Systems, 2012, 27, 1366-1376.	6.5	162
14	Optimal charging of an electric vehicle using a Markov decision process. Applied Energy, 2014, 123, 1-12.	10.1	153
15	Pool Strategy of a Price-Maker Wind Power Producer. IEEE Transactions on Power Systems, 2013, 28, 3440-3450.	6.5	135
16	Simulating the Impact of Wind Production on Locational Marginal Prices. IEEE Transactions on Power Systems, 2011, 26, 820-828.	6.5	111
17	An Integrated Market for Electricity and Natural Gas Systems with Stochastic Power Producers. European Journal of Operational Research, 2019, 272, 642-654.	5.7	106
18	Integration of large-scale heat pumps in the district heating systems of Greater Copenhagen. Energy, 2016, 107, 321-334.	8.8	105

#	ARTICLE	IF	CITATIONS
19	Chronological Time-Period Clustering for Optimal Capacity Expansion Planning With Storage. IEEE Transactions on Power Systems, 2018, 33, 7162-7170.	6.5	102
20	Electricity market clearing with improved scheduling of stochastic production. European Journal of Operational Research, 2014, 235, 765-774.	5.7	89
21	Short-term probabilistic forecasting of wind speed using stochastic differential equations. International Journal of Forecasting, 2016, 32, 981-990.	6.5	88
22	Solving Linear Bilevel Problems Using Big-Ms: Not All That Glitters Is Gold. IEEE Transactions on Power Systems, 2019, 34, 2469-2471.	6.5	84
23	Real-Time Procurement Strategies of a Proactive Distribution Company With Aggregator-Based Demand Response. IEEE Transactions on Smart Grid, 2018, 9, 766-776.	9.0	75
24	Probabilistic forecasts of solar irradiance using stochastic differential equations. Environmetrics, 2014, 25, 152-164.	1.4	61
25	Commitment and dispatch of heat and power units via affinely adjustable robust optimization. Computers and Operations Research, 2016, 75, 191-201.	4.0	61
26	An Efficient Robust Solution to the Two-Stage Stochastic Unit Commitment Problem. IEEE Transactions on Power Systems, 2017, 32, 4477-4488.	6.5	61
27	A Data-Driven Bidding Model for a Cluster of Price-Responsive Consumers of Electricity. IEEE Transactions on Power Systems, 2016, 31, 5001-5011.	6.5	60
28	Intraday Trading of Wind Energy. IEEE Transactions on Power Systems, 2015, 30, 3181-3189.	6.5	55
29	Operational Strategies for a Portfolio of Wind Farms and CHP Plants in a Two-Price Balancing Market. IEEE Transactions on Power Systems, 2016, 31, 2182-2191.	6.5	51
30	Data-Driven Screening of Network Constraints for Unit Commitment. IEEE Transactions on Power Systems, 2020, 35, 3695-3705.	6.5	46
31	SmartNet: H2020 project analysing TSO's DSO interaction to enable ancillary services provision from distribution networks. CIRED - Open Access Proceedings Journal, 2017, 2017, 1998-2002.	0.1	43
32	Efficiently solving linear bilevel programming problems using off-the-shelf optimization software. Optimization and Engineering, 2018, 19, 187-211.	2.4	42
33	Electricity Cost-Sharing in Energy Communities Under Dynamic Pricing and Uncertainty. IEEE Access, 2021, 9, 30225-30241.	4.2	40
34	Evaluating alternative offering strategies for wind producers in a pool. Applied Energy, 2011, 88, 4918-4926.	10.1	35
35	Short-Term Forecasting of Price-Responsive Loads Using Inverse Optimization. IEEE Transactions on Smart Grid, 2018, 9, 4805-4814.	9.0	35
36	Impact of forecast errors on expansion planning of power systems with a renewables target. European Journal of Operational Research, 2016, 248, 1113-1122.	5.7	34

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37	Calculation of Measurement Correlations Using Point Estimate. IEEE Transactions on Power Delivery, 2010, 25, 2095-2103.	4.3	30
38	A Transmission-Cost-Based Model to Estimate the Amount of Market-Integrable Wind Resources. IEEE Transactions on Power Systems, 2012, 27, 1060-1069.	6.5	28
39	Optimal Price-Energy Demand Bids for Aggregate Price-Responsive Loads. IEEE Transactions on Smart Grid, 2018, 9, 5005-5013.	9.0	28
40	Consumers' Flexibility Estimation at the TSO Level for Balancing Services. IEEE Transactions on Power Systems, 2019, 34, 1918-1930.	6.5	27
41	A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. IEEE Transactions on Power Systems, 2020, 35, 1868-1880.	6.5	27
42	Tools for the Analysis and Design of Distributed Resources"Part III: Market Studies. IEEE Transactions on Power Delivery, 2011, 26, 1663-1670.	4.3	26
43	Capacity expansion of stochastic power generation under two-stage electricity markets. Computers and Operations Research, 2016, 70, 101-114.	4.0	26
44	Impact of equipment failures and wind correlation on generation expansion planning. Electric Power Systems Research, 2014, 116, 451-458.	3.6	23
45	On the inefficiency of the merit order in forward electricity markets with uncertain supply. European Journal of Operational Research, 2017, 261, 789-799.	5.7	23
46	Enabling Active/Passive Electricity Trading in Dual-Price Balancing Markets. IEEE Transactions on Power Systems, 2019, 34, 1980-1990.	6.5	23
47	Leveraging stochastic differential equations for probabilistic forecasting of wind power using a dynamic power curve. Wind Energy, 2017, 20, 33-44.	4.2	22
48	Time-Adaptive Unit Commitment. IEEE Transactions on Power Systems, 2019, 34, 3869-3878.	6.5	21
49	Setting Reserve Requirements to Approximate the Efficiency of the Stochastic Dispatch. IEEE Transactions on Power Systems, 2019, 34, 1524-1536.	6.5	21
50	Feature-Driven Improvement of Renewable Energy Forecasting and Trading. IEEE Transactions on Power Systems, 2020, 35, 3753-3763.	6.5	21
51	Robust management of Combined Heat and Power systems via linear decision rules. , 2014, , .		20
52	Redefining the Merit Order of Stochastic Generation in Forward Markets. IEEE Transactions on Power Systems, 2014, 29, 992-993.	6.5	17
53	Dynamic multi-stage dispatch of isolated wind" diesel power systems. Energy Conversion and Management, 2015, 103, 605-615.	9.2	17
54	Inhomogeneous Markov Models for Describing Driving Patterns. IEEE Transactions on Smart Grid, 2016, , 1-8.	9.0	17

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55	An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. IEEE Transactions on Smart Grid, 2020, 11, 4960-4970.	9.0	17
56	Determining reserve requirements in DK1 area of Nord Pool using a probabilistic approach. Energy, 2014, 74, 682-693.	8.8	15
57	Electricity pool prices: long-term uncertainty characterization for futures-market trading and risk management. Journal of the Operational Research Society, 2010, 61, 235-245.	3.4	13
58	Stochastic unit commitment via Progressive Hedging — extensive analysis of solution methods. , 2015, , .		12
59	Trading Stochastic Production in Electricity Pools. Profiles in Operations Research, 2014, , 205-242.	0.4	11
60	Distributionally robust stochastic programs with side information based on trimmings. Mathematical Programming, 0, , 1.	2.4	11
61	Economic valuation of reserves in power systems with high penetration of wind power. , 2009, , .		10
62	Virtual Power Plants Virtual power plant. Profiles in Operations Research, 2014, , 243-287.	0.4	10
63	Impact of Inter- and Intra-Regional Coordination in Markets With a Large Renewable Component. IEEE Transactions on Power Systems, 2016, 31, 5061-5070.	6.5	10
64	Forecasting the price-response of a pool of buildings via homothetic inverse optimization. Applied Energy, 2021, 290, 116791.	10.1	9
65	Learning the Price Response of Active Distribution Networks for TSO-DSO Coordination. IEEE Transactions on Power Systems, 2022, 37, 2858-2868.	6.5	8
66	Adjustable Robust Optimization for Planning Logistics Operations in Downstream Oil Networks. Processes, 2019, 7, 507.	2.8	6
67	A two-phase stochastic programming approach to biomass supply planning for combined heat and power plants. OR Spectrum, 2020, 42, 863-900.	3.4	6
68	Reserve-constrained economic dispatch: Cost and payment allocations. Electric Power Systems Research, 2008, 78, 919-925.	3.6	5
69	Day-ahead Operation of an Aggregator of Electric Vehicles via Optimization under Uncertainty. , 2019, , .		5
70	Inverse optimization with kernel regression: Application to the power forecasting and bidding of a fleet of electric vehicles. Computers and Operations Research, 2021, 134, 105405.	4.0	5
71	Balancing Markets. Profiles in Operations Research, 2014, , 101-136.	0.4	3
72	Clearing the Day-Ahead Market with a High Penetration of Stochastic Production. Profiles in Operations Research, 2014, , 57-100.	0.4	3

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73	Managing Uncertainty with Flexibility. Profiles in Operations Research, 2014, , 137-171.	0.4	3
74	Partition-based distributionally robust optimization via optimal transport with order cone constraints. 4or, 0, , 1.	1.6	3
75	Facilitating Renewable Integration by Demand Response Demand response. Profiles in Operations Research, 2014, , 289-329.	0.4	2
76	Analysis of rebound effect modelling for flexible electrical consumers. IFAC-PapersOnLine, 2019, 52, 6-11.	0.9	2
77	An exact dynamic programming approach to segmented isotonic regression. Omega, 2021, 105, 102516.	5.9	2
78	Statistical analysis of the impact of wind power on market quantities and power flows. , 2012, , .		1
79	Impact of Stochastic Renewable Energy Generation on Market Quantities. Profiles in Operations Research, 2014, , 173-203.	0.4	1
80	Oil product distribution planning via robust optimization. Computer Aided Chemical Engineering, 2018, 43, 949-954.	0.5	1
81	Integrating non-dispatchable producers in electricity markets. , 2010, , .		0
82	Operational strategies for a portfolio of wind farms and CHP plants in a two-price balancing market. , 2016, , .		0
83	A Bicriteria Perspective on L-Penalty Approaches â€“ a Corrigendum to Siddiqui and Gabrielâ€™s L-Penalty Approach for Solving MPECs. Networks and Spatial Economics, 2019, 19, 1199-1214.	1.6	0
84	How Can Smart Buildings Be Price-Responsive?. , 2019, , .		0