Juan M Morales

List of Publications by Year
in descending order

84 papers	7,134 citations	145106 33 h-index	87275 74 g-index
87 all docs	87 docs citations	87 times ranked	5710 citing authors

#	Article	IF	Citations
1	Learning the Price Response of Active Distribution Networks for TSO-DSO Coordination. IEEE Transactions on Power Systems, 2022, 37, 2858-2868.	4.6	8
2	Electricity Cost-Sharing in Energy Communities Under Dynamic Pricing and Uncertainty. IEEE Access, 2021, 9, 30225-30241.	2.6	40
3	Forecasting the price-response of a pool of buildings via homothetic inverse optimization. Applied Energy, 2021, 290, 116791.	5.1	9
4	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.	2.4	5
5	An exact dynamic programming approach to segmented isotonic regression. Omega, 2021, 105, 102516.	3.6	2
6	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.	4.6	27
7	An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. IEEE Transactions on Smart Grid, 2020, 11, 4960-4970.	6.2	17
8	Data-Driven Screening of Network Constraints for Unit Commitment. IEEE Transactions on Power Systems, 2020, 35, 3695-3705.	4.6	46
9	A two-phase stochastic programming approach to biomass supply planning for combined heat and power plants. OR Spectrum, 2020, 42, 863-900.	2.1	6
10	Feature-Driven Improvement of Renewable Energy Forecasting and Trading. IEEE Transactions on Power Systems, 2020, 35, 3753-3763.	4.6	21
11	An Integrated Market for Electricity and Natural Gas Systems with Stochastic Power Producers. European Journal of Operational Research, 2019, 272, 642-654.	3.5	106
12	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.	0.7	0
13	Adjustable Robust Optimization for Planning Logistics Operations in Downstream Oil Networks. Processes, 2019, 7, 507.	1.3	6
14	Analysis of rebound effect modelling for flexible electrical consumers. IFAC-PapersOnLine, 2019, 52, 6-11.	0.5	2
15	Time-Adaptive Unit Commitment. IEEE Transactions on Power Systems, 2019, 34, 3869-3878.	4.6	21
16	Day-ahead Operation of an Aggregator of Electric Vehicles via Optimization under Uncertainty. , 2019, , .		5
17	How Can Smart Buildings Be Price-Responsive?. , 2019, , .		0
18	Setting Reserve Requirements to Approximate the Efficiency of the Stochastic Dispatch. IEEE Transactions on Power Systems, 2019, 34, 1524-1536.	4.6	21

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19	Enabling Active/Passive Electricity Trading in Dual-Price Balancing Markets. IEEE Transactions on Power Systems, 2019, 34, 1980-1990.	4.6	23
20	Solving Linear Bilevel Problems Using Big-Ms: Not All That Glitters Is Gold. IEEE Transactions on Power Systems, 2019, 34, 2469-2471.	4.6	84
21	Consumersâ€™ Flexibility Estimation at the TSO Level for Balancing Services. IEEE Transactions on Power Systems, 2019, 34, 1918-1930.	4.6	27
22	Real-Time Procurement Strategies of a Proactive Distribution Company With Aggregator-Based Demand Response. IEEE Transactions on Smart Grid, 2018, 9, 766-776.	6.2	75
23	Short-Term Forecasting of Price-Responsive Loads Using Inverse Optimization. IEEE Transactions on Smart Grid, 2018, 9, 4805-4814.	6.2	35
24	Optimal Price-Energy Demand Bids for Aggregate Price-Responsive Loads. IEEE Transactions on Smart Grid, 2018, 9, 5005-5013.	6.2	28
25	Efficiently solving linear bilevel programming problems using off-the-shelf optimization software. Optimization and Engineering, 2018, 19, 187-211.	1.3	42
26	Oil product distribution planning via robust optimization. Computer Aided Chemical Engineering, 2018, 43, 949-954.	0.3	1
27	Chronological Time-Period Clustering for Optimal Capacity Expansion Planning With Storage. IEEE Transactions on Power Systems, 2018, 33, 7162-7170.	4.6	102
28	Leveraging stochastic differential equations for probabilistic forecasting of wind power using a dynamic power curve. Wind Energy, 2017, 20, 33-44.	1.9	22
29	On the inefficiency of the merit order in forward electricity markets with uncertain supply. European Journal of Operational Research, 2017, 261, 789-799.	3.5	23
30	An Efficient Robust Solution to the Two-Stage Stochastic Unit Commitment Problem. IEEE Transactions on Power Systems, 2017, 32, 4477-4488.	4.6	61
31	SmartNet: H2020 project analysing TSOâ€“DSO interaction to enable ancillary services provision from distribution networks. CIRED - Open Access Proceedings Journal, 2017, 2017, 1998-2002.	0.1	43
32	Operational strategies for a portfolio of wind farms and CHP plants in a two-price balancing market. , 2016, , .		0
33	Integration of large-scale heat pumps in the district heating systems of Greater Copenhagen. Energy, 2016, 107, 321-334.	4.5	105
34	Commitment and dispatch of heat and power units via affinely adjustable robust optimization. Computers and Operations Research, 2016, 75, 191-201.	2.4	61
35	Short-term probabilistic forecasting of wind speed using stochastic differential equations. International Journal of Forecasting, 2016, 32, 981-990.	3.9	88
36	Impact of Inter- and Intra-Regional Coordination in Markets With a Large Renewable Component. IEEE Transactions on Power Systems, 2016, 31, 5061-5070.	4.6	10

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37	Capacity expansion of stochastic power generation under two-stage electricity markets. Computers and Operations Research, 2016, 70, 101-114.	2.4	26
38	Inhomogeneous Markov Models for Describing Driving Patterns. IEEE Transactions on Smart Grid, 2016, , 1-8.	6.2	17
39	A Data-Driven Bidding Model for a Cluster of Price-Responsive Consumers of Electricity. IEEE Transactions on Power Systems, 2016, 31, 5001-5011.	4.6	60
40	Economic valuation of heat pumps and electric boilers in the Danish energy system. Applied Energy, 2016, 167, 189-200.	5.1	173
41	Impact of forecast errors on expansion planning of power systems with a renewables target. European Journal of Operational Research, 2016, 248, 1113-1122.	3.5	34
42	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.	4.6	51
43	Stochastic unit commitment via Progressive Hedging — extensive analysis of solution methods. , 2015, , .		12
44	Intraday Trading of Wind Energy. IEEE Transactions on Power Systems, 2015, 30, 3181-3189.	4.6	55
45	Dynamic multi-stage dispatch of isolated wind–diesel power systems. Energy Conversion and Management, 2015, 103, 605-615.	4.4	17
46	Robust management of Combined Heat and Power systems via linear decision rules. , 2014, , .		20
47	Integrating Renewables in Electricity Markets. Profiles in Operations Research, 2014, , .	0.3	194
48	Virtual Power Plants Virtual power plant. Profiles in Operations Research, 2014, , 243-287.	0.3	10
49	Trading Stochastic Production in Electricity Pools. Profiles in Operations Research, 2014, , 205-242.	0.3	11
50	Balancing Markets. Profiles in Operations Research, 2014, , 101-136.	0.3	3
51	Clearing the Day-Ahead Market with a High Penetration of Stochastic Production. Profiles in Operations Research, 2014, , 57-100.	0.3	3
52	Facilitating Renewable Integration by Demand Response Demand response. Profiles in Operations Research, 2014, , 289-329.	0.3	2
53	Impact of Stochastic Renewable Energy Generation on Market Quantities. Profiles in Operations Research, 2014, , 173-203.	0.3	1
54	Managing Uncertainty with Flexibility. Profiles in Operations Research, 2014, , 137-171.	0.3	3

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55	Optimal charging of an electric vehicle using a Markov decision process. Applied Energy, 2014, 123, 1-12.	5.1	153
56	Electricity market clearing with improved scheduling of stochastic production. European Journal of Operational Research, 2014, 235, 765-774.	3.5	89
57	Probabilistic forecasts of solar irradiance using stochastic differential equations. Environmetrics, 2014, 25, 152-164.	0.6	61
58	Impact of equipment failures and wind correlation on generation expansion planning. Electric Power Systems Research, 2014, 116, 451-458.	2.1	23
59	Determining reserve requirements in DK1 area of Nord Pool using a probabilistic approach. Energy, 2014, 74, 682-693.	4.5	15
60	Redefining the Merit Order of Stochastic Generation in Forward Markets. IEEE Transactions on Power Systems, 2014, 29, 992-993.	4.6	17
61	Pool Strategy of a Price-Maker Wind Power Producer. IEEE Transactions on Power Systems, 2013, 28, 3440-3450.	4.6	135
62	Offering model for a virtual power plant based on stochastic programming. Applied Energy, 2013, 105, 282-292.	5.1	290
63	A bilevel model for electricity retailers' participation in a demand response market environment. Energy Economics, 2013, 36, 182-197.	5.6	258
64	A Transmission-Cost-Based Model to Estimate the Amount of Market-Integrable Wind Resources. IEEE Transactions on Power Systems, 2012, 27, 1060-1069.	4.6	28
65	Statistical analysis of the impact of wind power on market quantities and power flows. , 2012, , .		1
66	Pricing Electricity in Pools With Wind Producers. IEEE Transactions on Power Systems, 2012, 27, 1366-1376.	4.6	162
67	Simulating the Impact of Wind Production on Locational Marginal Prices. IEEE Transactions on Power Systems, 2011, 26, 820-828.	4.6	111
68	Tools for the Analysis and Design of Distributed Resources—Part III: Market Studies. IEEE Transactions on Power Delivery, 2011, 26, 1663-1670.	2.9	26
69	Evaluating alternative offering strategies for wind producers in a pool. Applied Energy, 2011, 88, 4918-4926.	5.1	35
70	Real-Time Demand Response Model. IEEE Transactions on Smart Grid, 2010, 1, 236-242.	6.2	879
71	A methodology to generate statistically dependent wind speed scenarios. Applied Energy, 2010, 87, 843-855.	5.1	257
72	Electricity pool prices: long-term uncertainty characterization for futures-market trading and risk management. Journal of the Operational Research Society, 2010, 61, 235-245.	2.1	13

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73	Short-Term Trading for a Wind Power Producer. IEEE Transactions on Power Systems, 2010, 25, 554-564.	4.6	412
74	Integrating non-dispatchable producers in electricity markets. , 2010, , .		0
75	Calculation of Measurement Correlations Using Point Estimate. IEEE Transactions on Power Delivery, 2010, 25, 2095-2103.	2.9	30
76	Probabilistic power flow with correlated wind sources. IET Generation, Transmission and Distribution, 2010, 4, 641.	1.4	303
77	Decision Making Under Uncertainty in Electricity Markets. Profiles in Operations Research, 2010, , .	0.3	665
78	Economic valuation of reserves in power systems with high penetration of wind power. , 2009, , .		10
79	Scenario Reduction for Futures Market Trading in Electricity Markets. IEEE Transactions on Power Systems, 2009, 24, 878-888.	4.6	219
80	Economic Valuation of Reserves in Power Systems With High Penetration of Wind Power. IEEE Transactions on Power Systems, 2009, 24, 900-910.	4.6	472
81	Reserve-constrained economic dispatch: Cost and payment allocations. Electric Power Systems Research, 2008, 78, 919-925.	2.1	5
82	Point Estimate Schemes to Solve the Probabilistic Power Flow. IEEE Transactions on Power Systems, 2007, 22, 1594-1601.	4.6	585
83	Partition-based distributionally robust optimization via optimal transport with order cone constraints. 4or, 0, , 1.	1.0	3
84	Distributionally robust stochastic programs with side information based on trimmings. Mathematical Programming, 0, , 1.	1.6	11