

# Kameshwar Poolla

## List of Publications by Year in descending order

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69  
papers

3,742  
citations

331670

21  
h-index

361022

35  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Foundations of Control and Estimation Over Lossy Networks. Proceedings of the IEEE, 2007, 95, 163-187.	21.3	1,108
2	Aggregate Flexibility of Thermostatically Controlled Loads. IEEE Transactions on Power Systems, 2015, 30, 189-198.	6.5	526
3	Bringing Wind Energy to Market. IEEE Transactions on Power Systems, 2012, 27, 1225-1235.	6.5	254
4	Cooperation of Wind Power and Battery Storage to Provide Frequency Regulation in Power Markets. IEEE Transactions on Power Systems, 2017, 32, 3559-3568.	6.5	179
5	Identification of Linear Parameter-Varying Systems Using Nonlinear Programming. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 71-78.	1.6	157
6	The Sharing Economy for the Electricity Storage. IEEE Transactions on Smart Grid, 2019, 10, 556-567.	9.0	143
7	Sharing Storage in a Smart Grid: A Coalitional Game Approach. IEEE Transactions on Smart Grid, 2019, 10, 4379-4390.	9.0	130
8	Coalitional Aggregation of Wind Power. IEEE Transactions on Power Systems, 2013, 28, 3774-3784.	6.5	103
9	Real-Time Scheduling of Distributed Resources. IEEE Transactions on Smart Grid, 2013, 4, 2122-2130.	9.0	88
10	EnergyStar++: Towards more accurate and explanatory building energy benchmarking. Applied Energy, 2020, 276, 115413.	10.1	83
11	Regulating TNCs: Should Uber and Lyft set their own rules?. Transportation Research Part B: Methodological, 2019, 129, 193-225.	5.9	80
12	Optimal linear LQG control over lossy networks without packet acknowledgment. Asian Journal of Control, 2008, 10, 3-13.	3.0	72
13	A generalized battery model of a collection of Thermostatically Controlled Loads for providing ancillary service. , 2013, , .		66
14	Ramping Rate Flexibility of Residential HVAC Loads. IEEE Transactions on Sustainable Energy, 2016, 7, 865-874.	8.8	61
15	Mechanism Design for Demand Response Programs. IEEE Transactions on Smart Grid, 2020, 11, 61-73.	9.0	60
16	Analysis of Solar Energy Aggregation Under Various Billing Mechanisms. IEEE Transactions on Smart Grid, 2019, 10, 4175-4187.	9.0	49
17	Identification of Structured Nonlinear Systems. IEEE Transactions on Automatic Control, 2008, 53, 2497-2513.	5.7	41
18	Competitive energy storage in the presence of renewables. IEEE Transactions on Power Systems, 2013, 28, 985-996.	6.5	40

#	ARTICLE	IF	CITATIONS
19	Model validation for dynamically uncertain systems. <i>Mathematical Modelling of Systems</i> , 1997, 3, 43-58.	0.7	38
20	Duration-Differentiated Energy Services With a Continuum of Loads. <i>IEEE Transactions on Control of Network Systems</i> , 2016, 3, 182-191.	3.7	36
21	Compressive System Identification of LTI and LTV ARX models. , 2011, , .		33
22	Learning-Based Hierarchical Distributed HVAC Scheduling With Operational Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 1892-1900.	5.2	32
23	Model and data analysis of two-settlement electricity market with virtual bidding. , 2016, , .		22
24	A Time-Domain Approach to Model Validation. , 1992, , .		21
25	Estimation over Wireless Sensor Networks. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	21
26	Spatial pricing in ride-sourcing markets under a congestion charge. <i>Transportation Research Part B: Methodological</i> , 2021, 152, 18-45.	5.9	20
27	Explainable AI for Chiller Fault-Detection Systems: Gaining Human Trust. <i>Computer</i> , 2021, 54, 60-68.	1.1	19
28	Sharing electricity storage. , 2016, , .		18
29	Consolidated Dynamic Pricing of Power System Regulation. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 4692-4700.	6.5	16
30	Low-dimensional models in spatio-temporal wind speed forecasting. , 2015, , .		16
31	A cooperative game for the realized profit of an aggregation of renewable energy producers. , 2016, , .		16
32	Sharing economy and optimal investment decisions for distributed solar generation. <i>Applied Energy</i> , 2021, 294, 117029.	10.1	14
33	Mechanism design for self-reporting baselines in Demand Response. , 2016, , .		12
34	Rate-Constrained Energy Services in Electricity. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 2894-2907.	9.0	12
35	Selling wind power in electricity markets: The status today, the opportunities tomorrow. , 2012, , .		11
36	Implementation of Nonthreaded Estimation for Run-to-Run Control of High Mix Semiconductor Manufacturing. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2013, 26, 516-528.	1.7	10

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37	Predictability, constancy and contingency in electric load profiles. , 2016, , .		10
38	Optimal sensor density for remote estimation over Wireless Sensor Networks. , 2008, , .		9
39	The filter design from data (FD2) problem: parametricâ€statistical approach. International Journal of Robust and Nonlinear Control, 2012, 22, 1853-1872.	3.7	9
40	Selling Demand Response Using Options. IEEE Transactions on Smart Grid, 2021, 12, 279-288.	9.0	9
41	Metrology Sampling Strategies for Process Monitoring Applications. IEEE Transactions on Semiconductor Manufacturing, 2011, 24, 489-498.	1.7	8
42	Optimal sharing of quantity risk for a coalition of wind power producers facing nodal prices. , 2012, , .		8
43	Mobile Storage for Demand Charge Reduction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7952-7962.	8.0	8
44	Duration-differentiated energy services with a continuum of loads. , 2014, , .		7
45	Optimal asymptotic robust performance via nonlinear controllers. International Journal of Control, 1995, 62, 1367-1389.	1.9	6
46	Robust Structured Nonlinear System Identification. , 2006, , .		6
47	Automatic Power Exchange for Distributed Energy Resource Networks: Flexibility Scheduling and Pricing. , 2018, , .		6
48	Baseline Estimation and Scheduling for Demand Response. , 2018, , .		6
49	Characterizing and resolving unobservability in run-to-run control of high mix semiconductor manufacturing. , 2013, , .		5
50	Equilibria in two-stage electricity markets. , 2015, , .		5
51	Pricing in Prosumer Aggregations using Reinforcement Learning. , 2021, , .		5
52	Inventory control of storage in distribution systems. , 2012, , .		4
53	On the Initialization of Threaded Run-to-Run Control of Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 515-522.	1.7	4
54	Yield-constrained digital circuit sizing via sequential geometric programming. , 2010, , .		3

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55	Tracking transience: a method for dynamic monitoring of biological events in Arabidopsis thaliana biosensors. <i>Planta</i> , 2015, 242, 1251-1261.	3.2	3
56	Strategic Information Platforms in Transportation Networks. , 2019, , .		3
57	Sample Complexity for Worst-Case System Identification Problems. , 1993, , .		2
58	A Strategy to Maintain Short-Term Stability and Long-Term Profitability of Renewable Energy Aggregation. , 2018, , .		2
59	Optimal Resource Procurement and the Price of Causality. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 3489-3501.	5.7	2
60	Optimal Composition of Prosumer Aggregations. , 2021, , .		2
61	Modeling sporulation decisions in <i>Bacillus subtilis</i> as optimal evolutionary decision-making. , 2011, , .		1
62	Distributed Storage Investment in Power Networks. , 2019, , .		1
63	Dynamic pricing in consolidated ancillary service markets. , 2013, , .		1
64	Experiment Design for Structured Nonlinear System Identification. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	0
65	2018 European Control Conference (ECC) June 12-15, 2018. Limassol, Cyprus Optimal Energy Reserve Procurement. , 2018, , .		0
66	Direct Data-Driven Methods for Risk Limiting Dispatch. , 2018, , .		0
67	Recursive Parsimonious System Identification Algorithm for Dynamical Systems. , 2018, , .		0
68	Data-Driven Capacity Bidding for Frequency Regulation. , 2019, , .		0
69	Recursive Methods for Model Validation. , 1993, , .		0