

# Pravin Varaiya

## List of Publications by Year in descending order

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70  
papers

1,897  
citations

394286

19  
h-index

377752

34  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobile Storage for Demand Charge Reduction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7952-7962.	4.7	8
2	Selling Demand Response Using Options. IEEE Transactions on Smart Grid, 2021, 12, 279-288.	6.2	9
3	Optimal Resource Procurement and the Price of Causality. IEEE Transactions on Automatic Control, 2021, 66, 3489-3501.	3.6	2
4	Mechanism Design for Demand Response Programs. IEEE Transactions on Smart Grid, 2020, 11, 61-73.	6.2	60
5	Pavement performance assessment using a cost-effective wireless accelerometer system. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 1009-1022.	6.3	13
6	Large-Scale Traffic Signal Offset Optimization. IEEE Transactions on Control of Network Systems, 2020, 7, 1176-1187.	2.4	5
7	Analysis of Solar Energy Aggregation Under Various Billing Mechanisms. IEEE Transactions on Smart Grid, 2019, 10, 4175-4187.	6.2	49
8	Sharing Storage in a Smart Grid: A Coalitional Game Approach. IEEE Transactions on Smart Grid, 2019, 10, 4379-4390.	6.2	130
9	Estimating Phase Duration for SPaT Messages. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2668-2676.	4.7	17
10	Making intersections safer with I2V communication. Transportation Research Part C: Emerging Technologies, 2019, 102, 396-410.	3.9	31
11	Data-Driven Capacity Bidding for Frequency Regulation. , 2019, , .		0
12	Distributed Storage Investment in Power Networks. , 2019, , .		1
13	The Sharing Economy for the Electricity Storage. IEEE Transactions on Smart Grid, 2019, 10, 556-567.	6.2	143
14	Flexible Market for Smart Grid: Coordinated Trading of Contingent Contracts. IEEE Transactions on Control of Network Systems, 2018, 5, 1657-1667.	2.4	27
15	Rate-Constrained Energy Services in Electricity. IEEE Transactions on Smart Grid, 2018, 9, 2894-2907.	6.2	12
16	Conic Approximation with Provable Guarantee for Traffic Signal Offset Optimization. , 2018, , .		3
17	2018 European Control Conference (ECC) June 12-15, 2018. Limassol, Cyprus Optimal Energy Reserve Procurement. , 2018, , .		0
18	Direct Data-Driven Methods for Risk Limiting Dispatch. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Automatic Power Exchange for Distributed Energy Resource Networks: Flexibility Scheduling and Pricing. , 2018, , .		6
20	Baseline Estimation and Scheduling for Demand Response. , 2018, , .		6
21	Optimizing Offsets in Signalized Traffic Networks: A Case Study. , 2018, , .		2
22	Offset optimization in signalized traffic networks via semidefinite relaxation. Transportation Research Part B: Methodological, 2017, 100, 82-92.	2.8	14
23	Development of a Cost-Effective Wireless Vibration Weigh-Én-ÉMotion System to Estimate Axle Weights of Trucks. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 443-457.	6.3	40
24	Traffic predictive control from low-rank structure. Transportation Research Part B: Methodological, 2017, 97, 1-22.	2.8	25
25	Model and data analysis of two-settlement electricity market with virtual bidding. , 2016, , .		22
26	Queue-length estimation using real-time traffic data. , 2016, , .		13
27	Sharing electricity storage. , 2016, , .		18
28	Mechanism design for self-reporting baselines in Demand Response. , 2016, , .		12
29	Duration-Differentiated Energy Services With a Continuum of Loads. IEEE Transactions on Control of Network Systems, 2016, 3, 182-191.	2.4	36
30	Offset optimization for a network of signalized intersections via semidefinite relaxation. , 2015, , .		5
31	Low-dimensional models in spatio-temporal wind speed forecasting. , 2015, , .		16
32	Duration-deadline jointly differentiated energy services. , 2015, , .		10
33	Equilibria in two-stage electricity markets. , 2015, , .		5
34	Analysis of fixed-time control. Transportation Research Part B: Methodological, 2015, 73, 81-90.	2.8	50
35	Duration-differentiated energy services with a continuum of loads. , 2014, , .		7
36	Risk-limiting dispatch for integrating renewable power. International Journal of Electrical Power and Energy Systems, 2013, 44, 615-628.	3.3	71

#	ARTICLE	IF	CITATIONS
37	Real-Time Scheduling of Distributed Resources. IEEE Transactions on Smart Grid, 2013, 4, 2122-2130.	6.2	88
38	Risk limiting dispatch of wind power. , 2012, , .		24
39	Optimal sharing of quantity risk for a coalition of wind power producers facing nodal prices. , 2012, , .		8
40	Risk Limiting Dispatch. , 2012, , .		8
41	Bringing Wind Energy to Market. IEEE Transactions on Power Systems, 2012, 27, 1225-1235.	4.6	254
42	A Power Efficient Modulation Technique for High-Speed Communication over Wired Channels. , 2011, , .		0
43	Using Aurora Road Network Modeler for Active Traffic Management. , 2010, , .		2
44	Risk-limiting dispatch of smart grid. , 2010, , .		6
45	Real-Time Measurement of Link Vehicle Count and Travel Time in a Road Network. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 814-825.	4.7	49
46	Formulation of Distributed Coordination Function of IEEE 802.11 for Asynchronous Networks: Mixed Data Rate and Packet Size. IEEE Transactions on Vehicular Technology, 2008, 57, 436-447.	3.9	23
47	Distributed Online Simultaneous Fault Detection for Multiple Sensors. , 2008, , .		31
48	Adaptive Acoustic Beamformer With Source Tracking Capabilities. IEEE Transactions on Signal Processing, 2008, 56, 2812-2820.	3.2	5
49	Congestion, ramp metering and tolls. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1921-1930.	1.6	18
50	Wideband Adaptive Beamforming System for Speech Recording. , 2007, , .		0
51	Ellipsoidal Techniques for Reachability Analysis of Discrete-Time Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 26-38.	3.6	162
52	Energy efficient routing with delay guarantee for sensor networks. Wireless Networks, 2007, 13, 679-690.	2.0	85
53	Universal Quantile Estimation with Feedback in the Communication-Constrained Setting. , 2006, , .		4
54	Throughput Analysis and Admission Control for IEEE 802.11a. Mobile Networks and Applications, 2005, 10, 705-716.	2.2	110

#	ARTICLE	IF	CITATIONS
55	Title is missing!. Telecommunication Systems, 2003, 24, 275-292.	1.6	9
56	Mechanism Design for Networking Research. Information Systems Frontiers, 2003, 5, 29-37.	4.1	6
57	POSITION LEVERAGE SMOOTH HANDOVER ALGORITHM FOR MOBILE IP. , 2002, , .		13
58	Effects of pricing on Internet user behavior. NETNOMICS: Economic Research and Electronic Networking, 2001, 3, 67-84.	0.9	15
59	Using Augmented Infinitesimal Perturbation Analysis for Capacity Planning in Intree ATM Networks. Discrete Event Dynamic Systems: Theory and Applications, 1997, 7, 377-390.	0.6	3
60	Bifurcation and chaos in power systems. Sadhana - Academy Proceedings in Engineering Sciences, 1993, 18, 761-786.	0.8	26
61	AUTOMATED HIGHWAY SYSTEM EXPERIMENTS IN THE PATH PROGRAM. I V H S Journal, 1993, 1, 63-87.	0.2	21
62	Two Proposals to Improve Freeway Traffic Flow. , 1991, , .		30
63	The Design of Platoon Maneuvers for IVHS. , 1991, , .		24
64	An optimal strategy for a conflict resolution problem. , 1985, , .		0
65	Consensus in distributed estimation with inconsistent beliefs. , 1984, , .		0
66	Bifurcation of Solutions of the Power Flow Equation. , 1983, , .		0
67	(IR) rationality of optimal control in economic policy. , 1977, , .		0
68	Role of control and system theory in economics. , 1975, , .		0
69	Optimal control of Markovian jump processes. , 1975, , .		4
70	Formal specification and verification of communication protocols for degraded modes of operation of IVHS. , 0, , .		1