

Pravin Varaiya

List of Publications by Year in descending order

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70
papers

1,897
citations

394421

19
h-index

377865

34
g-index

70
all docs

70
docs citations

70
times ranked

1703
citing authors

#	ARTICLE	IF	CITATIONS
1	Bringing Wind Energy to Market. IEEE Transactions on Power Systems, 2012, 27, 1225-1235.	6.5	254
2	Ellipsoidal Techniques for Reachability Analysis of Discrete-Time Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 26-38.	5.7	162
3	The Sharing Economy for the Electricity Storage. IEEE Transactions on Smart Grid, 2019, 10, 556-567.	9.0	143
4	Sharing Storage in a Smart Grid: A Coalitional Game Approach. IEEE Transactions on Smart Grid, 2019, 10, 4379-4390.	9.0	130
5	Throughput Analysis and Admission Control for IEEE 802.11a. Mobile Networks and Applications, 2005, 10, 705-716.	3.3	110
6	Real-Time Scheduling of Distributed Resources. IEEE Transactions on Smart Grid, 2013, 4, 2122-2130.	9.0	88
7	Energy efficient routing with delay guarantee for sensor networks. Wireless Networks, 2007, 13, 679-690.	3.0	85
8	Risk-limiting dispatch for integrating renewable power. International Journal of Electrical Power and Energy Systems, 2013, 44, 615-628.	5.5	71
9	Mechanism Design for Demand Response Programs. IEEE Transactions on Smart Grid, 2020, 11, 61-73.	9.0	60
10	Analysis of fixed-time control. Transportation Research Part B: Methodological, 2015, 73, 81-90.	5.9	50
11	Real-Time Measurement of Link Vehicle Count and Travel Time in a Road Network. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 814-825.	8.0	49
12	Analysis of Solar Energy Aggregation Under Various Billing Mechanisms. IEEE Transactions on Smart Grid, 2019, 10, 4175-4187.	9.0	49
13	Development of a Cost-Effective Wireless Vibration Weighing Motion System to Estimate Axle Weights of Trucks. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 443-457.	9.8	40
14	Duration-Differentiated Energy Services With a Continuum of Loads. IEEE Transactions on Control of Network Systems, 2016, 3, 182-191.	3.7	36
15	Distributed Online Simultaneous Fault Detection for Multiple Sensors. , 2008, , .		31
16	Making intersections safer with I2V communication. Transportation Research Part C: Emerging Technologies, 2019, 102, 396-410.	7.6	31
17	Two Proposals to Improve Freeway Traffic Flow. , 1991, , .		30
18	Flexible Market for Smart Grid: Coordinated Trading of Contingent Contracts. IEEE Transactions on Control of Network Systems, 2018, 5, 1657-1667.	3.7	27

#	ARTICLE	IF	CITATIONS
19	Bifurcation and chaos in power systems. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1993, 18, 761-786.	1.3	26
20	Traffic predictive control from low-rank structure. <i>Transportation Research Part B: Methodological</i> , 2017, 97, 1-22.	5.9	25
21	The Design of Platoon Maneuvers for IVHS. , 1991, , .		24
22	Risk limiting dispatch of wind power. , 2012, , .		24
23	Formulation of Distributed Coordination Function of IEEE 802.11 for Asynchronous Networks: Mixed Data Rate and Packet Size. <i>IEEE Transactions on Vehicular Technology</i> , 2008, 57, 436-447.	6.3	23
24	Model and data analysis of two-settlement electricity market with virtual bidding. , 2016, , .		22
25	AUTOMATED HIGHWAY SYSTEM EXPERIMENTS IN THE PATH PROGRAM. <i>IVHS Journal</i> , 1993, 1, 63-87.	0.2	21
26	Congestion, ramp metering and tolls. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 1921-1930.	3.4	18
27	Sharing electricity storage. , 2016, , .		18
28	Estimating Phase Duration for SPaT Messages. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 2668-2676.	8.0	17
29	Low-dimensional models in spatio-temporal wind speed forecasting. , 2015, , .		16
30	Effects of pricing on Internet user behavior. <i>NETNOMICS: Economic Research and Electronic Networking</i> , 2001, 3, 67-84.	0.9	15
31	Offset optimization in signalized traffic networks via semidefinite relaxation. <i>Transportation Research Part B: Methodological</i> , 2017, 100, 82-92.	5.9	14
32	Queue-length estimation using real-time traffic data. , 2016, , .		13
33	Pavement performance assessment using a cost-effective wireless accelerometer system. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1009-1022.	9.8	13
34	POSITION LEVERAGE SMOOTH HANDOVER ALGORITHM FOR MOBILE IP. , 2002, , .		13
35	Mechanism design for self-reporting baselines in Demand Response. , 2016, , .		12
36	Rate-Constrained Energy Services in Electricity. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 2894-2907.	9.0	12

#	ARTICLE	IF	CITATIONS
37	Duration-deadline jointly differentiated energy services. , 2015, , .		10
38	Title is missing!. Telecommunication Systems, 2003, 24, 275-292.	2.5	9
39	Selling Demand Response Using Options. IEEE Transactions on Smart Grid, 2021, 12, 279-288.	9.0	9
40	Optimal sharing of quantity risk for a coalition of wind power producers facing nodal prices. , 2012, , .		8
41	Risk Limiting Dispatch. , 2012, , .		8
42	Mobile Storage for Demand Charge Reduction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7952-7962.	8.0	8
43	Duration-differentiated energy services with a continuum of loads. , 2014, , .		7
44	Mechanism Design for Networking Research. Information Systems Frontiers, 2003, 5, 29-37.	6.4	6
45	Risk-limiting dispatch of smart grid. , 2010, , .		6
46	Automatic Power Exchange for Distributed Energy Resource Networks: Flexibility Scheduling and Pricing. , 2018, , .		6
47	Baseline Estimation and Scheduling for Demand Response. , 2018, , .		6
48	Adaptive Acoustic Beamformer With Source Tracking Capabilities. IEEE Transactions on Signal Processing, 2008, 56, 2812-2820.	5.3	5
49	Offset optimization for a network of signalized intersections via semidefinite relaxation. , 2015, , .		5
50	Equilibria in two-stage electricity markets. , 2015, , .		5
51	Large-Scale Traffic Signal Offset Optimization. IEEE Transactions on Control of Network Systems, 2020, 7, 1176-1187.	3.7	5
52	Optimal control of Markovian jump processes. , 1975, , .		4
53	Universal Quantile Estimation with Feedback in the Communication-Constrained Setting. , 2006, , .		4
54	Using Augmented Infinitesimal Perturbation Analysis for Capacity Planning in Intree ATM Networks. Discrete Event Dynamic Systems: Theory and Applications, 1997, 7, 377-390.	1.5	3

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55	Conic Approximation with Provable Guarantee for Traffic Signal Offset Optimization. , 2018, , .		3
56	Using Aurora Road Network Modeler for Active Traffic Management. , 2010, , .		2
57	Optimizing Offsets in Signalized Traffic Networks: A Case Study. , 2018, , .		2
58	Optimal Resource Procurement and the Price of Causality. IEEE Transactions on Automatic Control, 2021, 66, 3489-3501.	5.7	2
59	Formal specification and verification of communication protocols for degraded modes of operation of IVHS. , 0, , .		1
60	Distributed Storage Investment in Power Networks. , 2019, , .		1
61	Role of control and system theory in economics. , 1975, , .		0
62	(IR) rationality of optimal control in economic policy. , 1977, , .		0
63	Bifurcation of Solutions of the Power Flow Equation. , 1983, , .		0
64	Consensus in distributed estimation with inconsistent beliefs. , 1984, , .		0
65	An optimal strategy for a conflict resolution problem. , 1985, , .		0
66	Wideband Adaptive Beamforming System for Speech Recording. , 2007, , .		0
67	A Power Efficient Modulation Technique for High-Speed Communication over Wired Channels. , 2011, , .		0
68	2018 European Control Conference (ECC) June 12-15, 2018. Limassol, Cyprus Optimal Energy Reserve Procurement. , 2018, , .		0
69	Direct Data-Driven Methods for Risk Limiting Dispatch. , 2018, , .		0
70	Data-Driven Capacity Bidding for Frequency Regulation. , 2019, , .		0