Lacra Pavel

List of Publications by Year
in descending order

70 papers	1,364 citations	623734 14 h-index	552781 26 g-index
70 all docs	70 docs citations	70 times ranked	462 citing authors

#	Article	IF	Citations
1	Distributed Nash equilibrium seeking: A gossip-based algorithm. Automatica, 2016, 72, 209-216.	5.0	177
2	A Passivity-Based Approach to Nash Equilibrium Seeking Over Networks. IEEE Transactions on Automatic Control, 2019, 64, 1077-1092.	5.7	166
3	An operator splitting approach for distributed generalized Nash equilibria computation. Automatica, 2019, 102, 111-121.	5.0	151
4	Distributed GNE Seeking Under Partial-Decision Information Over Networks via a Doubly-Augmented Operator Splitting Approach. IEEE Transactions on Automatic Control, 2020, 65, 1584-1597.	5.7	90
5	Distributed Nash equilibrium seeking under partial-decision information via the alternating direction method of multipliers. Automatica, 2019, 103, 27-35.	5.0	69
6	Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection. IEEE Transactions on Control of Network Systems, 2020, 7, 129-139.	3.7	69
7	Distributed Generalized Nash Equilibria Computation of Monotone Games via Double-Layer Preconditioned Proximal-Point Algorithms. IEEE Transactions on Control of Network Systems, 2019, 6, 299-311.	3.7	61
8	Asynchronous Distributed Algorithms for Seeking Generalized Nash Equilibria Under Full and Partial-Decision Information. IEEE Transactions on Cybernetics, 2020, 50, 2514-2526.	9.5	48
9	Games with coupled propagated constraints in optical networks with multi-link topologies. Automatica, 2009, 45, 871-880.	5.0	41
10	Distributed Nash equilibrium seeking in networked graphical games. Automatica, 2018, 87, 17-24.	5.0	39
11	Nash equilibrium design and optimization. , 2009, , .		37
12	A distributed primal-dual algorithm for computation of generalized Nash equilibria via operator splitting methods. , 2017, , .		32
13	A continuous-time decentralized optimization scheme with positivity constraints. , 2012, , .		30
14	Single-Timescale Distributed GNE Seeking for Aggregative Games Over Networks via Forward–Backward Operator Splitting. IEEE Transactions on Automatic Control, 2021, 66, 3259-3266.	5.7	27
15	A control theoretic approach to noncooperative game design. , 2009, , .		26
16	Nash equilibrium seeking by a gossip-based algorithm. , 2014, , .		23
17	Lyapunov-Based Boundary Control for A Class of Hyperbolic Lotka–Volterra Systems. IEEE Transactions on Automatic Control, 2012, 57, 701-714.	5.7	22
18	On Passivity, Reinforcement Learning, and Higher Order Learning in Multiagent Finite Games. IEEE Transactions on Automatic Control, 2021, 66, 121-136.	5.7	19

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19	An analytic framework for decentralized extremum seeking control. , 2012, , .		18
20	A population game approach for dynamic resource allocation problems. International Journal of Control, 2017, 90, 1957-1972.	1.9	15
21	Continuous-Time Discounted Mirror Descent Dynamics in Monotone Concave Games. IEEE Transactions on Automatic Control, 2021, 66, 5451-5458.	5.7	14
22	Modeling and Analysis of the Contribution of Channel Walk-Off to Nondegenerate and Degenerate Four-Wave-Mixing Noise in RZ-OOK Optical Transmission Systems. Journal of Lightwave Technology, 2006, 24, 4269-4285.	4.6	13
23	LANA: An ADMM-like Nash equilibrium seeking algorithm in decentralized environment. , 2017, , .		13
24	Distributed GNE seeking over networks in aggregative games with coupled constraints via forward-backward operator splitting. , 2019, , .		11
25	Dynamic Gradient Play for NE Seeking with Disturbance Rejection. , 2018, , .		10
26	Continuous-time distributed dynamics for Nash equilibrium over networks via a passivity-based control approach. , 2017, , .		9
27	Games with coupled propagated constraints in optical networks: The multi-link case. , 2007, , .		8
28	Enabling differentiated services using generalized power control model in optical networks. IEEE Transactions on Communications, 2009, 57, 2570-2575.	7.8	8
29	Interconnection conditions for the stability of nonlinear sampled-data extremum seeking schemes. , 2011, , .		8
30	Link level power control of optical networks with time-delay. , 2007, , .		7
31	A Nested Noncooperative OSNR Game in Distributed WDM Optical Links. IEEE Transactions on Communications, 2007, 55, 1220-1230.	7.8	7
32	Robust power control of multi-link single-sink optical networks with time-delays. Automatica, 2013, 49, 2261-2266.	5.0	7
33	A doubly-augmented operator splitting approach for distributed GNE seeking over networks. , 2018, , .		6
34	On Passivity and Reinforcement Learning in Finite Games. , 2018, , .		6
35	Asynchronous distributed algorithm for seeking generalized Nash equilibria. , 2018, , .		6
36	An optimization model to utilize regenerative braking energy in a railway network. , 2015, , .		5

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37	GEN02-1: Hierarchical Iterative Algorithm for a Coupled Constrained OSNR Nash Game. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
38	Endâ€toâ€end DWDM optical link powerâ€control via a Stackelberg revenueâ€maximizing model. International Journal of Network Management, 2008, 18, 505-520.	2.2	4
39	Control for Suppression of Channel Power Excursions in ROADM-Based WDM Chain Networks. Journal of Lightwave Technology, 2014, 32, 293-302.	4.6	4
40	Distributed Nash equilibrium seeking by gossip in games on graphs. , 2016, , .		4
41	Discounted Mirror Descent Dynamics in Concave Games. , 2019, , .		4
42	Lyapunov-based boundary control for 2 × 2 hyperbolic Lotka-Volterra systems. , 2009, , .		3
43	Global classical solvability of initial-boundary problems for hyperbolic Lotka-Volterra systems in Sobolev spaces. , 2009, , .		3
44	Oscillation analysis for a quasi-ring optical network. , 2012, , .		3
45	A Stackelberg game model for Plug-in Electric Vehicles in a Smart Grid. , 2013, , .		3
46	Population dynamics approach for resource allocation problems. , 2015, , .		3
47	On Incremental Passivity in Network Games. Static and Dynamic Game Theory: Foundations and Applications, 2019, , 183-200.	0.6	3
48	Distributed Nash equilibrium seeking resilient to adversaries. , 2021, , .		3
49	Dissipativity Theory in Game Theory: On the Role of Dissipativity and Passivity in Nash Equilibrium Seeking. IEEE Control Systems, 2022, 42, 150-164.	0.8	3
50	Application of robust L<inf>2</inf> control to erbium doped fiber amplifier: Input and state uncertainty. , 2006, , .		2
51	Solving constrained OSNR Nash game in WDM optical networks with a fictitious player. , 2007, , .		2
52	OSNR optimization with link capacity constraints in WDM networks: A cross layer game approach. , 2007, , .		2
53	Robust power control of single sink optical networks with time-delays. , 2009, , .		2
54	Decentralized caching strategies for energy-efficient content delivery. , 2014, , .		2

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55	Distributed seeking for generalized Nash equilibria of monotone games via preconditioned proximal algorithms. , 2018, , .		2
56	Continuous-Time Convergence Rates in Potential and Monotone Games. SIAM Journal on Control and Optimization, 2022, 60, 1712-1731.	2.1	2
57	Pricing Design of Power Control Game in WDM Optical Networks via State-space Approach. , 2007, , .		1
58	Novel gain control in a multichannel semiconductor optical amplifier with equivalent circuit using nonlinear state-space methods. , 2007, , .		1
59	Stackelberg game approach to constrained OSNR nash game in WDM optical networks. , 2008, , .		1
60	Games with coupled propagated constraints in general topology optical networks. , 2009, , .		1
61	Multi-player minimum cost flow problems with nonconvex costs and integer flows. , 2016, , .		1
62	On seeking efficient Pareto optimal points in multi-player minimum cost flow problems with application to transportation systems. Journal of Global Optimization, 2019, 74, 523-548.	1.8	1
63	Q-Learning with Side Information in Multi-Agent Finite Games. , 2019, , .		1
64	Nash Equilibrium Seeking over Networks. , 2021, , 1411-1418.		1
65	Suppressing Intrachannel Crosstalk in a Multichannel Semiconductor Optical Amplifier Using Optoelectronic State-space Gain Control. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
66	Iterative Algorithms for Nash Equilibrium of an Extended OSNR Game. , 2007, , .		0
67	Delay-tolerant control design for Semiconductor Optical Amplifiers. , 2008, , .		0
68	Control of channel power excursions at sudden reconfiguration or faults in a ROADM-based WDM network. , 2013, , .		0
69	On the Role of Information in Learning in Games over Networks. , 2019, , .		0
70	Nash Equilibrium Seeking over Networks. , 2020, , 1-8.		0