

Petros A Ioannou

List of Publications by Year in descending order

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84
papers

1,601
citations

430874

18
h-index

414414

32
g-index

86
all docs

86
docs citations

86
times ranked

1306
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Freight Dynamic Routing Using a Co-Simulation Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12833-12845.	8.0	0
2	Selection of the Speed Command Distance for Improved Performance of a Rule-Based VSL and Lane Change Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19348-19357.	8.0	13
3	A Distributed Indirect Adaptive Approach to Cooperative Tracking in Networks of Uncertain Single-Input Single-Output Systems. IEEE Transactions on Automatic Control, 2021, 66, 4844-4851.	5.7	17
4	Personalized Pareto-improving pricing-and-routing schemes for near-optimum freight routing: An alternative approach to congestion pricing. Transportation Research Part C: Emerging Technologies, 2021, 125, 103004.	7.6	7
5	Mechanisms for Cooperative Freight Routing: Incentivizing Individual Participation. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2155-2166.	8.0	11
6	Operating Electric Vehicle Fleet for Ride-Hailing Services With Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4822-4834.	8.0	69
7	Distributed Adaptive Control of Air Handling Units for Interconnected Building Zones. , 2020, , .		5
8	Distributed Adaptive Control of Multi-Zone HVAC Systems. , 2019, , .		4
9	A Coordination Mechanism for the Freight Routing Problem with Discrete Time Intervals. , 2019, , .		1
10	Optimization of Crowd Evacuation With Leaders in Urban Rail Transit Stations. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4476-4487.	8.0	65
11	Distributed Adaptive HVAC Control for Multi-Zone Buildings. , 2019, , .		4
12	Coordinated Freight Routing With Individual Incentives for Participation. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3397-3408.	8.0	12
13	Dynamic Multimodal Freight Routing Using a Co-Simulation Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2657-2667.	8.0	21
14	Model Reference Adaptive Control for Networked Distributed Systems with Strong Interconnections and Communication Delays. Journal of Systems Science and Complexity, 2018, 31, 38-68.	2.8	10
15	Integrated control of highway traffic flow. Journal of Control and Decision, 2018, 5, 19-41.	1.6	10
16	Comparison of Feedback Linearization and Model Predictive Techniques for Variable Speed Limit Control. , 2018, , .		7
17	On-Street Parking Prediction Using Real-Time Data. , 2018, , .		18
18	From Intelligent Vehicles to Smart Societies: A Parallel Driving Approach. IEEE Transactions on Computational Social Systems, 2018, 5, 594-604.	4.4	20

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19	Adaptive feedback suppression of unknown periodic components of acoustic noises with time-varying characteristics. JVC/Journal of Vibration and Control, 2017, 23, 526-538.	2.6	7
20	Adaptive Optimal Control for Large-Scale Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 5567-5577.	5.7	31
21	Overparameterized robust MRAC for rejection of unknown periodic disturbances acting on unknown plants in the presence of noise. , 2017, , .		2
22	Adaptive networked distributed model reference control systems with strong interconnections and delays. , 2017, , .		0
23	Rejection of unknown periodic disturbances for continuous-time MIMO systems with dynamic uncertainties. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1674-1688.	4.1	14
24	Adaptive control of Networked Distributed Systems with unknown interconnections. , 2016, , .		9
25	A Traffic Light Signal Control System with Truck Priority ¹ *This work has been supported in part by the National Science Foundation under the CPS program and in part by the University Transportation Center METRANS at University of Southern California.. IFAC-PapersOnLine, 2016, 49, 377-382.	0.9	11
26	Adaptive optimization for active queue management supporting TCP flows. , 2016, , .		3
27	Intelligent driver assist system for urban driving. , 2016, , .		3
28	Personalized Driver Assistance for Signalized Intersections Using V2I Communication. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1910-1919.	8.0	76
29	Speed Adaptive Probabilistic Flooding for Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1973-1990.	6.3	48
30	Robust Direct Adaptive Regulation of Unknown Disturbances in the Vicinity of Low-Damped Complex Zeros--Application to AVC. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	5.2	4
31	Positive Train Control With Dynamic Headway Based on an Active Communication System. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3095-3103.	8.0	40
32	Combined Variable Speed Limit and Lane Change Control for Truck-Dominant Highway Segment. , 2015, , .		12
33	Driving Autopilot with Personalization Feature for Improved Safety and Comfort. , 2015, , .		32
34	Robustness and Performance of Adaptive Suppression of Unknown Periodic Disturbances. IEEE Transactions on Automatic Control, 2015, 60, 2166-2171.	5.7	39
35	Driver/Vehicle Response Diagnostic System for the Vehicle-Following Case. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1947-1957.	8.0	6
36	Convex Design Control for Practical Nonlinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1692-1705.	5.7	24

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37	Adaptive suppression of periodic disturbances in MIMO linear systems. , 2013, , .		4
38	A “plug-n-play” computationally efficient approach for control design of large-scale nonlinear systems using co-simulation. , 2013, , .		14
39	Robust stability and performance of adaptive jitter suppression in laser beam pointing. , 2013, , .		6
40	A scalable iterative convex design for nonlinear systems. , 2012, , .		1
41	Driver/vehicle response diagnostic system for vehicle following based on Gaussian Mixture Model. , 2012, , .		4
42	Stability margins in adaptive mixing control via a Lyapunov-based switching criterion. , 2012, , .		1
43	Multiple Model Adaptive Mixing Control: The Discrete-Time Case. IEEE Transactions on Automatic Control, 2012, 57, 1040-1045.	5.7	32
44	Adaptive mixing control with multiple estimators. International Journal of Adaptive Control and Signal Processing, 2012, 26, 800-820.	4.1	24
45	Speed Adaptive Probabilistic Flooding for vehicular ad-hoc networks. , 2011, , .		7
46	Adaptive Notch Filter Using Real-Time Parameter Estimation. IEEE Transactions on Control Systems Technology, 2011, 19, 673-681.	5.2	19
47	A New Estimation Scheme for the Effective Number of Users in Internet Congestion Control. IEEE/ACM Transactions on Networking, 2011, 19, 1499-1512.	3.8	9
48	Multiple Model Adaptive Control With Mixing. IEEE Transactions on Automatic Control, 2010, 55, 1822-1836.	5.7	123
49	Cruise control with adaptation and wheel torque constraints for improved fuel economy. , 2010, , .		4
50	Information Hovering in Vehicular Ad-Hoc Networks. , 2009, , .		5
51	Analysis of an adaptive mixing control scheme for an airbreathing hypersonic vehicle model. , 2009, , .		26
52	Adaptive control with neuro-adaptive disturbance rejection. , 2009, , .		2
53	A Neural-Networks-Based Adaptive Disturbance Rejection Method and Its Application to the Control of Hard Disk Drives. IEEE Transactions on Magnetics, 2009, 45, 2140-2150.	2.1	19
54	Robust adaptive controller scheduling using mixing. , 2009, , .		1

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55	Adaptive Mode-Suppression and Disturbance-Rejection Scheme With Application to Disk Drives. IEEE Transactions on Control Systems Technology, 2009, 17, 620-632.	5.2	10
56	Indirect adaptive control for systems with input rate saturation. , 2008, , .		14
57	Adaptive LQ Control With Anti-Windup Augmentation to Optimize UAV Performance in Autonomous Soaring Applications. IEEE Transactions on Control Systems Technology, 2008, 16, 691-707.	5.2	72
58	Multirate adaptive notch filter with an adaptive bandwidth controller for disk drives. , 2008, , .		5
59	Real-Time Estimation of Travel Times Along the Arcs and Arrival Times at the Nodes of Dynamic Stochastic Networks. IEEE Transactions on Intelligent Transportation Systems, 2008, 9, 97-110.	8.0	35
60	Multiple model adaptive control with mixing: A pedagogical example. , 2008, , .		6
61	Practical robust adaptive control: Benchmark example. , 2008, , .		25
62	Adaptive disturbance rejection for disk drives using neural networks. , 2008, , .		4
63	A Robust Adaptive Control Design for Gliders Subject to Actuator Saturation Nonlinearities. Proceedings of the American Control Conference, 2007, , .	0.0	24
64	An indirect adaptive control design with anti-windup compensation: Stability analysis. , 2007, , .		18
65	Identification and High Bandwidth Control of Hard Disk Drive Servo Systems Based on Sampled Data Measurements. IEEE Transactions on Control Systems Technology, 2007, 15, 1089-1095.	5.2	18
66	Queue Length Based Internet Congestion Control. , 2007, , .		5
67	An integrated roadway controller and its evaluation by microscopic simulator VISSIM. , 2007, , .		14
68	Safe Adaptive Control for Performance Improvement. , 2006, , .		5
69	Robustness and performance of a modified adaptive backstepping controller. International Journal of Adaptive Control and Signal Processing, 1998, 12, 247-265.	4.1	16
70	ROBUST ADAPTIVE CONTROL OF MINIMUM PHASE NON-LINEAR SYSTEMS. International Journal of Adaptive Control and Signal Processing, 1996, 10, 61-78.	4.1	14
71	A new class of nonlinear robust adaptive controllers. International Journal of Control, 1996, 65, 745-769.	1.9	13
72	Directly computable L_2 and L_∞ performance bounds for morse's dynamic certainty equivalence adaptive controller. International Journal of Adaptive Control and Signal Processing, 1995, 9, 423-432.	4.1	3

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73	A Robust Adaptive Nonlinear Control Design. , 1993, , .		127
74	Modelling, Identification and Stable Adaptive Control of Continuous-Time Nonlinear Dynamical Systems Using Neural Networks. , 1992, , .		85
75	Robust adaptive controlâ€”a modified scheme. International Journal of Control, 1991, 54, 241-256.	1.9	10
76	Robust adaptive control of plants with unknown order and high frequency gain. International Journal of Control, 1991, 53, 559-578.	1.9	20
77	Learning Techniques for Structured Networks. , 1991, , .		0
78	Parameter Convergence of Modified Adaptive Laws with Persistent Excitation. , 1990, , .		1
79	Non-Linear Robust Adaptive Control of a SCARA Manipulator. , 1989, , .		0
80	A robust discrete-time adaptive controller. , 1986, , .		33
81	Robust adaptive controller with zero residual tracking errors. , 1985, , .		1
82	Adaptive Control Techniques for a Class of Large-Scale Systems. , 1984, , .		2
83	Design of decentralized adaptive controllers. , 1983, , .		11
84	Decentralized Adaptive Control in the Presence of Multiparameter Singular Perturbations and Bounded Disturbances. , 1983, , .		7