Petros A Ioannou

List of Publications by Year
in descending order

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	A Robust Adaptive Nonlinear Control Design. , 1993, , .		127
2	Multiple Model Adaptive Control With Mixing. IEEE Transactions on Automatic Control, 2010, 55, 1822-1836.	5.7	123
3	Modelling, Identification and Stable Adaptive Control of Continuous-Time Nonlinear Dynamical Systems Using Neural Networks. , 1992, , .		85
4	Personalized Driver Assistance for Signalized Intersections Using V2I Communication. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1910-1919.	8.0	76
5	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
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	Optimization of Crowd Evacuation With Leaders in Urban Rail Transit Stations. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4476-4487.	8.0	65
8	Speed Adaptive Probabilistic Flooding for Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1973-1990.	6.3	48
9	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
10	Robustness and Performance of Adaptive Suppression of Unknown Periodic Disturbances. IEEE Transactions on Automatic Control, 2015, 60, 2166-2171.	5.7	39
11	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
12	A robust discrete-time adaptive controller. , 1986, , .		33
13	Multiple Model Adaptive Mixing Control: The Discrete-Time Case. IEEE Transactions on Automatic Control, 2012, 57, 1040-1045.	5.7	32
14	Driving Autopilot with Personalization Feature for Improved Safety and Comfort. , 2015, , .		32
15	Adaptive Optimal Control for Large-Scale Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 5567-5577.	5.7	31
16	Analysis of an adaptive mixing control scheme for an airbreathing hypersonic vehicle model. , 2009, , .		26
17	Practical robust adaptive control: Benchmark example. , 2008, , .		25
18	A Robust Adaptive Control Design for Gliders Subject to Actuator Saturation Nonlinearities. Proceedings of the American Control Conference, 2007, , .	0.0	24

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19	Adaptive mixing control with multiple estimators. International Journal of Adaptive Control and Signal Processing, 2012, 26, 800-820.	4.1	24
20	Convex Design Control for Practical Nonlinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1692-1705.	5.7	24
21	Dynamic Multimodal Freight Routing Using a Co-Simulation Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2657-2667.	8.0	21
22	Robust adaptive control of plants with unknown order and high frequency gain. International Journal of Control, 1991, 53, 559-578.	1.9	20
23	From Intelligent Vehicles to Smart Societies: A Parallel Driving Approach. IEEE Transactions on Computational Social Systems, 2018, 5, 594-604.	4.4	20
24	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
25	Adaptive Notch Filter Using Real-Time Parameter Estimation. IEEE Transactions on Control Systems Technology, 2011, 19, 673-681.	5.2	19
26	An indirect adaptive control design with anti-windup compensation: Stability analysis. , 2007, , .		18
27	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
28	On-Street Parking Prediction Using Real-Time Data. , 2018, , .		18
29	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
30	Robustness and performance of a modified adaptive backstepping controller. International Journal of Adaptive Control and Signal Processing, 1998, 12, 247-265.	4.1	16
31	ROBUST ADAPTIVE CONTROL OF MINIMUM PHASE NON-LINEAR SYSTEMS. International Journal of Adaptive Control and Signal Processing, 1996, 10, 61-78.	4.1	14
32	An integrated roadway controller and its evaluation by microscopic simulator VISSIM. , 2007, , .		14
33	Indirect adaptive control for systems with input rate saturation. , 2008, , .		14
34	A “plug-n-play” computationally efficient approach for control design of large-scale nonlinear systems using co-simulation. , 2013, , .		14
35	Rejection of unknown periodic disturbances for continuousâ€time MIMO systems with dynamic uncertainties. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1674-1688.	4.1	14
36	A new class of nonlinear robust adaptive controllers. International Journal of Control, 1996, 65, 745-769.	1.9	13

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37	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
38	Combined Variable Speed Limit and Lane Change Control for Truck-Dominant Highway Segment. , 2015, , .		12
39	Coordinated Freight Routing With Individual Incentives for Participation. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3397-3408.	8.0	12
40	Design of decentralized adaptive controllers. , 1983, , .		11
41	A Traffic Light Signal Control System with Truck Priority1*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
42	Mechanisms for Cooperative Freight Routing: Incentivizing Individual Participation. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2155-2166.	8.0	11
43	Robust adaptive controlâ€"a modified scheme. International Journal of Control, 1991, 54, 241-256.	1.9	10
44	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
45	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
46	Integrated control of highway traffic flow. Journal of Control and Decision, 2018, 5, 19-41.	1.6	10
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	Adaptive control of Networked Distributed Systems with unknown interconnections. , 2016, , .		9
49	Decentralized Adaptive Control in the Presence of Multiparameter Singular Perturbations and Bounded Disturbances. , 1983, , .		7
50	Speed Adaptive Probabilistic Flooding for vehicular ad-hoc networks. , 2011, , .		7
51	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
52	Comparison of Feedback Linearization and Model Predictive Techniques for Variable Speed Limit Control. , 2018, , .		7
53	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
54	Multiple model adaptive control with mixing: A pedagogical example. , 2008, , .		6

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55	Robust stability and performance of adaptive jitter supression in laser beam pointing. , 2013, , .		6
56	Driver/Vehicle Response Diagnostic System for the Vehicle-Following Case. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1947-1957.	8.0	6
57	Safe Adaptive Control for Performance Improvement. , 2006, , .		5
58	Queue Length Based Internet Congestion Control. , 2007, , .		5
59	Multirate adaptive notch filter with an adaptive bandwidth controller for disk drives. , 2008, , .		5
60	Information Hovering in Vehicular Ad-Hoc Networks. , 2009, , .		5
61	Distributed Adaptive Control of Air Handling Units for Interconnected Building Zones. , 2020, , .		5
62	Adaptive disturbance rejection for disk drives using neural networks. , 2008, , .		4
63	Cruise control with adaptation and wheel torque constraints for improved fuel economy. , 2010, , .		4
64	Driver/vehicle response diagnostic system for vehicle following based on Gaussian Mixture Model. , 2012, , .		4
65	Adaptive suppression of periodic disturbances in MIMO linear systems. , 2013, , .		4
66	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
67	Distributed Adaptive Control of Multi-Zone HVAC Systems. , 2019, , .		4
68	Distributed Adaptive HVAC Control for Multi-Zone Buildings. , 2019, , .		4
69	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
70	Adaptive optimization for active queue management supporting TCP flows. , 2016, , .		3
71	Intelligent driver assist system for urban driving. , 2016, , .		3
72	Adaptive control with neuro-adaptive disturbance rejection. , 2009, , .		2

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73	Overparameterized robust MRAC for rejection of unknown periodic disturbances acting on unknown plants in the presence of noise. , 2017, , .		2
74	Adaptive Control Techniques for a Class of Large-Scale Systems. , 1984, , .		2
75	Robust adaptive controller with zero residual tracking errors. , 1985, , .		1
76	Parameter Convergence of Modified Adaptive Laws with Persistent Excitation. , 1990, , .		1
77	Robust adaptive controller scheduling using mixing. , 2009, , .		1
78	A scalable iterative convex design for nonlinear systems. , 2012, , .		1
79	Stability margins in adaptive mixing control via a Lyapunov-based switching criterion. , 2012, , .		1
80	A Coordination Mechanism for the Freight Routing Problem with Discrete Time Intervals. , 2019, , .		1
81	Learning Techniques for Structured Networks. , 1991, , .		0
82	Adaptive networked distributed model reference control systems with strong interconnections and delays. , 2017, , .		0
83	Mixed Freight Dynamic Routing Using a Co-Simulation Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12833-12845.	8.0	0
84	Non-Linear Robust Adaptive Control of a SCARA Manipulator. , 1989, , .		0