Alberto Petrillo

List of Publications by Year
in descending order

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44 papers	1,072 citations	516215 16 h-index	454577 30 g-index
46 all docs	46 docs citations	46 times ranked	731 citing authors

#	Article	IF	Citations
1	Adaptive multi-agents synchronization for collaborative driving of autonomous vehicles with multiple communication delays. Transportation Research Part C: Emerging Technologies, 2018, 86, 372-392.	3.9	116
2	A Secure Adaptive Control for Cooperative Driving of Autonomous Connected Vehicles in the Presence of Heterogeneous Communication Delays and Cyberattacks. IEEE Transactions on Cybernetics, 2021, 51, 1134-1149.	6.2	106
3	Distributed Robust PID Control For Leader Tracking in Uncertain Connected Ground Vehicles With V2V Communication Delay. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1153-1165.	3.7	88
4	A collaborative approach for improving the security of vehicular scenarios: The case of platooning. Computer Communications, 2018, 122, 59-75.	3.1	73
5	Cooperative Shock Waves Mitigation in Mixed Traffic Flow Environment. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4339-4353.	4.7	66
6	Towards Railway Virtual Coupling. , 2018, , .		61
7	Design and Experimental Validation of a Distributed Interaction Protocol for Connected Autonomous Vehicles at a Road Intersection. IEEE Transactions on Vehicular Technology, 2019, 68, 9451-9465.	3.9	49
8	An optimal distributed PID-like control for the output containment and leader-following of heterogeneous high-order multi-agent systems. Information Sciences, 2020, 541, 166-184.	4.0	39
9	Distributed robust output consensus for linear multiâ€agent systems with input timeâ€varying delays and parameter uncertainties. IET Control Theory and Applications, 2019, 13, 203-212.	1.2	36
10	Towards Zero Defect Manufacturing paradigm: A review of the state-of-the-art methods and open challenges. Computers in Industry, 2022, 134, 103548.	5.7	36
11	Adaptive synchronization of linear multi-agent systems with time-varying multiple delays. Journal of the Franklin Institute, 2017, 354, 8586-8605.	1.9	35
12	Model-based vehicular prognostics framework using Big Data architecture. Computers in Industry, 2020, 115, 103177.	5.7	35
13	Distributed Double-Layer Control for Coordination of Multiplatoons Approaching Road Restriction in the Presence of IoV Communication Delays. IEEE Internet of Things Journal, 2022, 9, 4090-4109.	5.5	33
14	Cooperative Intersection Crossing Over 5G. IEEE/ACM Transactions on Networking, 2021, 29, 303-317.	2.6	29
15	Distributed model reference adaptive containment control of heterogeneous multi-agent systems with unknown uncertainties and directed topologies. Journal of the Franklin Institute, 2021, 358, 737-756.	1.9	23
16	Distributed Nonlinear Model Predictive Control for Connected Autonomous Electric Vehicles Platoon with Distance-Dependent Air Drag Formulation. Energies, 2021, 14, 5122.	1.6	22
17	Connectivity Preserving Formation Stabilization in an Obstacle-Cluttered Environment in the Presence of Time-Varying Communication Delays. IEEE Transactions on Automatic Control, 2022, 67, 5525-5532.	3.6	20
18	Distributed leader-tracking adaptive control for high-order nonlinear Lipschitz multi-agent systems with multiple time-varying communication delays. International Journal of Control, 2021, 94, 1880-1892.	1.2	19

#	Article	IF	Citations
19	A collaborative control strategy for platoons of autonomous vehicles in the presence of message falsification attacks. , 2017, , .		17
20	A combined neural network and model predictive control approach for ball transfer unitâ€“magnetorheological elastomerâ€“based vibration isolation of lightweight structures. JVC/Journal of Vibration and Control, 2020, 26, 1668-1682.	1.5	16
21	Distributed PI Control For Heterogeneous Nonlinear Platoon of Autonomous Connected Vehicles. IFAC-PapersOnLine, 2020, 53, 15229-15234.	0.5	16
22	Leader tracking control for heterogeneous uncertain nonlinear multi-agent systems via a distributed robust adaptive PID strategy. Nonlinear Dynamics, 2022, 108, 363-378.	2.7	16
23	A L2â€gain robust PIDâ€like protocol for timeâ€varying output formationâ€containment of multiâ€agent systems with external disturbance and communication delays. IET Control Theory and Applications, 2021, 15, 1169-1184.	1.2	14
24	Improving the NO_x reduction performance of an Euro VI d SCR System in real-world condition via nonlinear model predictive control. International Journal of Engine Research, 2023, 24, 823-842.	1.4	13
25	A Decentralized Architecture Based on Cooperative Dynamic Agents for Online Voltage Regulation in Smart Grids. Energies, 2019, 12, 1386.	1.6	11
26	Distributed Leader-Tracking for Autonomous Connected Vehicles in Presence of Input Time-Varying Delay. , 2018, , .		9
27	Variable Speed Limits System: A Simulation-Based Case Study in the city of Naples. , 2020, , .		9
28	Distributed Robust Finite-Time Secondary Control for Stand-Alone Microgrids With Time-Varying Communication Delays. IEEE Access, 2021, 9, 59548-59563.	2.6	8
29	Hierarchical Two-Layer Distributed Control Architecture for Voltage Regulation in Multiple Microgrids in the Presence of Time-Varying Delays. Energies, 2020, 13, 6507.	1.6	7
30	Distributed Fixed-Time Leader-Tracking Control for Heterogeneous Uncertain Autonomous Connected Vehicles Platoons. , 2021, , .		7
31	A control strategy for reducing traffic waves in delayed vehicular networks. , 2016, , .		6
32	optimization of fuel consumption and battery life cycle in a fleet of Connected Hybrid Electric Vehicles via Distributed Nonlinear Model Predictive Control. , 2018, , .		5
33	Decentralized Smart Grid Voltage Control by Synchronization of Linear Multiagent Systems in the Presence of Time-Varying Latencies. Electronics (Switzerland), 2019, 8, 1470.	1.8	5
34	Combined Energy-oriented Path Following and Collision Avoidance approach for Autonomous Electric Vehicles via Nonlinear Model Predictive Control. , 2021, , .		4
35	Adaptive Cruise Control for Autonomous Electric Vehicles based on Q-learning algorithm. , 2021, , .		4
36	Distributed Robust Finite-Time PID control for the leader-following consensus of uncertain Multi-Agent Systems with communication delay. , 2021, , .		3

#	Article	IF	Citations
37	On the exponential leader-tracking control for high-order multi-agent systems via distributed PI strategy in the presence of heterogeneous time-varying delays. IFAC-PapersOnLine, 2021, 54, 139-144.	0.5	3
38	Distributed Sampled-data PID Control for Voltage Regulation in Inverter-Based Islanded Microgrids Using Artificial Delays. IFAC-PapersOnLine, 2021, 54, 186-191.	0.5	3
39	H_{âˆž}-PID distributed control for output leader-tracking and containment of heterogeneous MASs with external disturbances. Journal of Control and Decision, 2022, 9, 431-444.	0.7	3
40	Design Optimization of Electric Kart for Racing Sport Application. , 2018, , .		2
41	Robust Finite-time Voltage Restoration in Inverter-Based Microgrids via Distributed Cooperative Control in presence of communication time-varying delays. , 2020, , .		2
42	Constrained Reference Tracking via Structured Inputâ€“Output Finite-Time Stability. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7411-7421.	5.9	2
43	On the Robustness of a Distributed Adaptive Synchronization Protocol for Connected Autonomous Vehicles with Multiple Disturbances and Communication Delays. , 2018, , .		1
44	Robust Tracking Controller Design for Uncertain Nonlinear Self-Driving Cars. , 2019, , .		0