

Yen-Chen Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

655
citations

14
h-index

23
g-index

78
ext. papers

917
ext. citations

4.1
avg, IF

5.22
L-index

#	Paper	IF	Citations
52	Controlled Synchronization of Heterogeneous Robotic Manipulators in the Task Space. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 268-275	6.5	135
51	Control of semi-autonomous teleoperation system with time delays. <i>Automatica</i> , 2013 , 49, 1553-1565	5.7	63
50	Adaptive Control for Nonlinear Teleoperators With Uncertain Kinematics and Dynamics. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2550-2562	5.5	53
49	Distributed Coordination and Cooperation Control for Networked Mobile Manipulators. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5065-5074	8.9	36
48	Synchronization of networked robotic systems on strongly connected graphs 2010 ,		25
47	Synchronization of Networked Mechanical Systems With Communication Delays and Human Input. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	24
46	Control of Robotic Manipulators Under Input/Output Communication Delays: Theory and Experiments. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 742-751	6.5	22
45	Distributed synchronization for heterogeneous robots with uncertain kinematics and dynamics under switching topologies. <i>Journal of the Franklin Institute</i> , 2015 , 352, 3808-3826	4	20
44	Hybrid-triggered reliable dissipative control for singular networked cascade control systems with cyber-attacks. <i>Journal of the Franklin Institute</i> , 2020 , 357, 4008-4033	4	20
43	Task-space coordination control of bilateral human-swarm systems. <i>Journal of the Franklin Institute</i> , 2015 , 352, 311-331	4	18
42	Passivity-based control framework for task-space bilateral teleoperation with parametric uncertainty over unreliable networks. <i>ISA Transactions</i> , 2017 , 70, 187-199	5.5	17
41	Experiments on Human-in-the-Loop Coordination for Multirobot System With Task Abstraction. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015 , 12, 981-989	4.9	14
40	On Robust Control of Nonlinear Teleoperators Under Dynamic Uncertainties With Variable Time Delays and Without Relative Velocity. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 1272-1280	11.9	14
39	Resilient event-triggered fault-tolerant control for networked control systems with randomly occurring nonlinearities and DoS attacks. <i>International Journal of Systems Science</i> , 2020 , 51, 2712-2732	2.3	14
38	Task-space bilateral teleoperation systems for heterogeneous robots with time-varying delays. <i>Robotica</i> , 2015 , 33, 2065-2082	2.1	12
37	Object Transportation With Force-Sensorless Control and Event-Triggered Synchronization for Networked Uncertain Manipulators. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 902-912	8.9	12
36	Adaptive Reinforcement Learning Strategy with Sliding Mode Control for Unknown and Disturbed Wheeled Inverted Pendulum. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 1139-1150	2.0	12

35	Semi-autonomous teleoperation in task space with redundant slave robot under communication delays 2011 ,		10
34	Gravity-Compensation-Driven Position Regulation for Robotic Systems Under Input/Output Delays. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 995-1005	4.8	9
33	Nonlinear bilateral teleoperators with non-collocated remote controller over delayed network. <i>Mechatronics</i> , 2017 , 45, 25-36	3	8
32	Robust synchronisation of networked Lagrangian systems and its applications to multi-robot teleoperation. <i>IET Control Theory and Applications</i> , 2015 , 9, 129-139	2.5	8
31	Nonlinear bilateral teleoperators under event-driven communication with constant time delays. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 3547-3569	3.6	7
30	Dynamic coverage control for mobile robot network with limited and nonidentical sensory ranges 2017 ,		7
29	On stability and regulation performance for flexible-joint robots with input/output communication delays. <i>Automatica</i> , 2014 , 50, 1698-1705	5.7	7
28	Event-triggered control for adaptive bilateral teleoperators with communication delays. <i>IET Control Theory and Applications</i> , 2020 , 14, 427-437	2.5	6
27	Adaptive Backstepping Tracking Control for Quadrotor Aerial Robots Subject to Uncertain Dynamics 2019 ,		6
26	Adaptive control for bilateral teleoperators under time-varying communication delays 2013 ,		5
25	Towards a walking, turning, and jumping quadruped robot with compliant mechanisms 2016 ,		5
24	DDPG-Based Adaptive Robust Tracking Control for Aerial Manipulators With Decoupling Approach. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	5
23	Resilient Annular Finite-Time Bounded and Adaptive Event-Triggered Control for Networked Switched Systems With Deception Attacks. <i>IEEE Access</i> , 2021 , 9, 92288-92299	3.5	5
22	Direct learning coverage control based on expectation maximization in wireless sensor and robot network 2017 ,		4
21	Decentralized estimation and control for bilateral teleoperation of mobile robot network with task abstraction 2017 ,		4
20	Leaderless and leader-following consensus for networked mobile manipulators with communication delays 2015 ,		4
19	Event-Based Communication and Control for Task-Space Consensus of Networked Euler-Lagrange Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 555-565	4	4
18	Leaderless Consensus for Multiple Euler-Lagrange Systems with Event-Triggered Communication 2018 ,		4

17	Wave-variable framework for networked robotic systems with time delays and packet losses. <i>International Journal of Systems Science</i> , 2017 , 48, 1472-1484	2.3	3
16	Human-swarm collaboration with coverage control under nonidentical and limited sensory ranges. <i>Journal of the Franklin Institute</i> , 2019 , 356, 9122-9151	4	3
15	Passivity-based teleoperation system for robots with parametric uncertainty and communication delay 2014 ,		3
14	Passivity-based control for networked robotic system over unreliable communication 2014 ,		3
13	Non-linear adaptive tracking control for quadrotor aerial robots under uncertain dynamics. <i>IET Control Theory and Applications</i> , 2021 , 15, 1126-1139	2.5	3
12	Centralized Control Architecture for Cooperative Object Transportation using Multiple Omnidirectional AGVs 2019 ,		3
11	Event-triggered control for bilateral teleoperation with time delays 2016 ,		2
10	Design and implementation of a three-axis force sensor for applications to bilateral teleoperation systems 2015 ,		1
9	Wireless Sensor and Mobile Robot Network in Environmental Regulation using Radial Basis Function Networks 2020 ,		1
8	Advanced Finite-Time Control for Bilateral Teleoperators With Delays and Uncertainties. <i>IEEE Access</i> , 2021 , 9, 141951-141960	3.5	1
7	Robust and resilient stabilization and tracking control for chaotic dynamical systems with uncertainties. <i>International Journal of Dynamics and Control</i> , 2021 , 9, 1746	1.7	1
6	Finite-time convergence for bilateral teleoperation systems with disturbance and time-varying delays. <i>IET Control Theory and Applications</i> , 2021 , 15, 1736-1748	2.5	1
5	Indirect/Direct Learning Coverage Control for Wireless Sensor and Mobile Robot Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-16	4.8	1
4	Autonomous Guided Robotic Systems in Regulating Indoor Environmental Quality 2018 ,		1
3	Adaptive reinforcement learning in control design for cooperating manipulator systems. <i>Asian Journal of Control</i> , 2022 , 24, 1088-1103	1.7	1
2	Resilient adaptive event-triggered dissipative control for networked control systems with DoS attacks. <i>International Journal of Systems Science</i> , 1-17	2.3	0
1	Dynamic Modeling and Simulation of Electric Scooter Interactions With a Pedestrian Crowd Using a Social Force Model. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-14	6.1	