

Walter Lucia

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.

50
papers

300
citations

10
h-index

15
g-index

64
ext. papers

430
ext. citations

3
avg, IF

4.26
L-index

#	Paper	IF	Citations
50	Mobile robot localization via EKF and UKF: A comparison based on real data. <i>Robotics and Autonomous Systems</i> , 2015 , 74, 122-127	3.5	32
49	Resilient Control for Cyber-Physical Systems Subject to Replay Attacks 2019 , 3, 984-989		27
48	Cyber Meets Control: A Novel Federated Approach for Resilient CPS Leveraging Real Cyber Threat Intelligence 2017 , 55, 198-204		25
47	A Receding Horizon Control Strategy for Autonomous Vehicles in Dynamic Environments. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 695-702	4.8	24
46	The obstacle avoidance motion planning problem for autonomous vehicles: A low-demanding receding horizon control scheme. <i>Systems and Control Letters</i> , 2015 , 77, 1-10	2.4	23
45	A set-theoretic approach for secure and resilient control of Cyber-Physical Systems subject to false data injection attacks 2016 ,		19
44	An obstacle avoidance model predictive control scheme for mobile robots subject to nonholonomic constraints: A sum-of-squares approach. <i>Journal of the Franklin Institute</i> , 2015 , 352, 2358-2380	4	18
43	A distributed model predictive control scheme for leader-follower multi-agent systems. <i>International Journal of Control</i> , 2018 , 91, 369-382	1.5	15
42	A Blended Active Detection Strategy for False Data Injection Attacks in Cyber-Physical Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 168-176	4	14
41	Distributed Receding Horizon Control of Constrained Networked Leader-Follower Formations Subject to Packet Dropouts. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1798-1809	4.8	12
40	A Set-Theoretic Reconfiguration Feedback Control Scheme Against Simultaneous Stuck Actuators. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2558-2565	5.9	10
39	A Hybrid Command Governor Scheme for Rotary Wings Unmanned Aerial Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 361-375	4.8	5
38	Covert Channels in Cyber-Physical Systems 2021 , 5, 1273-1278		5
37	An obstacle avoidance and motion planning Command Governor based scheme: The Qball-X4 quadrotor case of study 2014 ,		4
36	A Novel Control Architecture for the Detection of False Data Injection Attacks in Networked Control Systems 2019 ,		4
35	Setpoint Attack Detection in Cyber-Physical Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2332-2338	5.9	4
34	A networked-based receding horizon scheme for constrained LPV systems. <i>European Journal of Control</i> , 2015 , 25, 69-75	2.5	3

33	A set-theoretic control architecture for constrained switching systems 2016,		3
32	Multi-vehicle formation control in uncertain environments 2017,		3
31	A dwell-time based Command Governor approach for constrained switched systems 2015,		3
30	Multiple stuck positions actuator faults: A model predictive based reconfigurable control scheme 2015,		3
29	Extended and Unscented Kalman Filters for mobile robot localization and environment reconstruction 2013,		3
28	Filters for mobile robots: EKF, UKF and sensor switching - experimental results 2011,		3
27	A Distributed Model Predictive Control Strategy for Constrained Multi-Vehicle Systems Moving in Unknown Environments. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 6, 343-352	5	3
26	Command governor for constrained switched systems with scheduled model transition dwell times. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 4949-4967	3.6	2
25	A Novel Networked Control Scheme with Safety Guarantees for Detection and Mitigation of Cyber-Attacks 2019,		2
24	A set-theoretic model predictive control approach for transient stability in smart grid. <i>IET Control Theory and Applications</i> , 2020 , 14, 700-707	2.5	2
23	A distributed obstacle avoidance MPC strategy for leader-follower formations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2570-2575		2
22	A networked-based MPC architecture for constrained LPV systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 158-163.7		2
21	An obstacle avoidance receding horizon control scheme for autonomous vehicles 2013,		2
20	Wyner wiretap-like encoding scheme for cyber-physical systems. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2020 , 5, 359-365	2.5	2
19	Covert channels in stochastic cyber-physical systems. <i>IET Cyber-Physical Systems: Theory and Applications</i> ,	2.5	2
18	Resilient model predictive control for constrained cyber-physical systems subject to severe attacks on the communication channels. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
17	Distributed receding horizon control for rotating wings unmanned aerial vehicles: a time-varying topology strategy 2018,		2
16	Multi-Vehicle Reference Tracking with Guaranteed Collision Avoidance 2019,		1

15	Stabilization and reference tracking for constrained switching systems: A predictive control approach. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 1871-1884	2.8	1
14	Networked control systems with state, input and communication constraints: A nonlinear approach 2012 ,		1
13	Undetectable Finite-Time Covert Attack on Constrained Cyber-Physical Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2022 , 1-1	4	1
12	Covert Channels in Cyber-Physical Systems 2021 ,		1
11	A Command Governor Based Approach for Detection of Setpoint Attacks in Constrained Cyber-Physical Systems 2018 ,		1
10	A reconfiguration control framework for constrained systems with sensor stuck faults. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 29, 1150	3.6	1
9	Guaranteed Collision-Free Reference Tracking in Constrained Multi Unmanned Vehicle Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
8	Confidentiality attacks against encrypted control systems. <i>Cyber-Physical Systems</i> ,1-20	1.1	0
7	A receding horizon scheme for discrete-time polytopic linear parameter varying systems in networked architectures. <i>Journal of Physics: Conference Series</i> , 2014 , 570, 032001	0.3	
6	Command Governor Strategy Based on Region of Attraction. <i>Journal of Control, Automation and Electrical Systems</i> ,1	1.5	
5	A Key-Agreement Scheme for Cyber-Physical Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-6	7.3	
4	A receding horizon event-driven control strategy for intelligent traffic management. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2021 , 31, 469-488		1
3	A safety preserving control architecture for cyber-physical systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 3036-3053	3.6	
2	Verification and Control of Hybrid Systems Under Safety Requirements. <i>IFAC-PapersOnLine</i> , 2018 , 51, 61-66	0.7	
1	Estimation of the Connectivity of Random Graphs through Q-Learning Techniques. <i>IEEE Journal of Radio Frequency Identification</i> , 2022 , 1-1	2.4	