

# Walter Lucia

## List of Publications by Year in descending order

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64  
papers

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citations

840119

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all docs

64  
docs citations

64  
times ranked

471  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resilient Control for Cyber-Physical Systems Subject to Replay Attacks. , 2019, 3, 984-989.		56
2	Mobile robot localization via EKF and UKF: A comparison based on real data. Robotics and Autonomous Systems, 2015, 74, 122-127.	3.0	51
3	A Blended Active Detection Strategy for False Data Injection Attacks in Cyber-Physical Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 168-176.	2.4	42
4	A Receding Horizon Control Strategy for Autonomous Vehicles in Dynamic Environments. IEEE Transactions on Control Systems Technology, 2016, 24, 695-702.	3.2	34
5	A distributed model predictive control scheme for leaderâ€“follower multi-agent systems. International Journal of Control, 2018, 91, 369-382.	1.2	32
6	Cyber Meets Control: A Novel Federated Approach for Resilient CPS Leveraging Real Cyber Threat Intelligence. , 2017, 55, 198-204.		31
7	A set-theoretic approach for secure and resilient control of Cyber-Physical Systems subject to false data injection attacks. , 2016, , .		29
8	The obstacle avoidance motion planning problem for autonomous vehicles: A low-demanding receding horizon control scheme. Systems and Control Letters, 2015, 77, 1-10.	1.3	25
9	An obstacle avoidance model predictive control scheme for mobile robots subject to nonholonomic constraints: A sum-of-squares approach. Journal of the Franklin Institute, 2015, 352, 2358-2380.	1.9	22
10	Resilient Model Predictive Control for Constrained Cyber-Physical Systems Subject to Severe Attacks on the Communication Channels. IEEE Transactions on Automatic Control, 2022, 67, 1822-1836.	3.6	19
11	Distributed Receding Horizon Control of Constrained Networked Leaderâ€“Follower Formations Subject to Packet Dropouts. IEEE Transactions on Control Systems Technology, 2018, 26, 1798-1809.	3.2	18
12	A Set-Theoretic Reconfiguration Feedback Control Scheme Against Simultaneous Stuck Actuators. IEEE Transactions on Automatic Control, 2018, 63, 2558-2565.	3.6	17
13	Setpoint Attack Detection in Cyber-Physical Systems. IEEE Transactions on Automatic Control, 2021, 66, 2332-2338.	3.6	15
14	A Distributed Model Predictive Control Strategy for Constrained Multi-Vehicle Systems Moving in Unknown Environments. IEEE Transactions on Intelligent Vehicles, 2021, 6, 343-352.	9.4	14
15	Covert Channels in Cyber-Physical Systems. , 2021, 5, 1273-1278.		11
16	A Novel Control Architecture for the Detection of False Data Injection Attacks in Networked Control Systems. , 2019, , .		9
17	A Hybrid Command Governor Scheme for Rotary Wings Unmanned Aerial Vehicles. IEEE Transactions on Control Systems Technology, 2020, 28, 361-375.	3.2	8
18	Multi-vehicle formation control in uncertain environments. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	An obstacle avoidance and motion planning Command Governor based scheme: The Qball-X4 quadrotor case of study. , 2014, , .		6
20	A Novel Networked Control Scheme with Safety Guarantees for Detection and Mitigation of Cyber-Attacks. , 2019, , .		6
21	Guaranteed Collision-Free Reference Tracking in Constrained Multi Unmanned Vehicle Systems. IEEE Transactions on Automatic Control, 2022, 67, 3083-3089.	3.6	6
22	Undetectable Finite-Time Covert Attack on Constrained Cyber-Physical Systems. IEEE Transactions on Control of Network Systems, 2022, 9, 1040-1048.	2.4	6
23	A distributed obstacle avoidance MPC strategy for leader-follower formations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2570-2575.	0.4	5
24	A Low Computationally Demanding Model Predictive Control Strategy for Robust Transient Stability in Smart Grid. , 2018, , .		5
25	Distributed receding horizon control for rotating wings unmanned aerial vehicles: a time-varying topology strategy. , 2018, , .		5
26	Set-Theoretic Control for Active Detection of Replay Attacks with Applications to Smart Grid. , 2020, , .		5
27	Extended and Unscented Kalman Filters for mobile robot localization and environment reconstruction. , 2013, , .		4
28	Command governor for constrained switched systems with scheduled model transition dwell times. International Journal of Robust and Nonlinear Control, 2017, 27, 4949-4967.	2.1	4
29	A Command Governor Based Approach for Detection of Setpoint Attacks in Constrained Cyber-Physical Systems. , 2018, , .		4
30	A reconfiguration control framework for constrained systems with sensor stuck faults. International Journal of Robust and Nonlinear Control, 2019, 29, 1150-1164.	2.1	4
31	A receding horizon control strategy for constrained differential-drive robots moving in static unknown environments. , 2020, , .		4
32	A set-theoretic model predictive control approach for transient stability in smart grid. IET Control Theory and Applications, 2020, 14, 700-707.	1.2	4
33	Filters for mobile robots: EKF, UKF and sensor switching - experimental results. , 2011, , .		3
34	A model predictive control scheme for mobile robotic vehicles in dynamic environments. , 2013, , .		3
35	An obstacle avoidance receding horizon control scheme for autonomous vehicles. , 2013, , .		3
36	A networked-based MPC architecture for constrained LPV systems. IFAC-PapersOnLine, 2015, 48, 158-163.	0.5	3

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37	A dwell-time based Command Governor approach for constrained switched systems. , 2015, , .		3
38	Multiple stuck positions actuator faults: A model predictive based reconfigurable control scheme. , 2015, , .		3
39	A networked-based receding horizon scheme for constrained LPV systems. European Journal of Control, 2015, 25, 69-75.	1.6	3
40	A set-theoretic control architecture for constrained switching systems. , 2016, , .		3
41	Multi-Vehicle Reference Tracking with Guaranteed Collision Avoidance. , 2019, , .		3
42	Covert channels in stochastic cyber-physical systems. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 228-237.	1.9	3
43	Wyner wiretap-like encoding scheme for cyber-physical systems. IET Cyber-Physical Systems: Theory and Applications, 2020, 5, 359-365.	1.9	3
44	On Securing Cloud-Hosted Cyber-Physical Systems Using Trusted Execution Environments. , 2021, , .		3
45	A Finite-Time Stealthy Covert Attack Against Cyber-Physical Systems. , 2020, , .		3
46	Confidentiality attacks against encrypted control systems. Cyber-Physical Systems, 2023, 9, 224-243.	1.6	3
47	Stabilization and reference tracking for constrained switching systems: A predictive control approach. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1871-1884.	2.3	2
48	A safety preserving control architecture for cyber-physical systems. International Journal of Robust and Nonlinear Control, 2021, 31, 3036-3053.	2.1	2
49	A DoS-resilient Set-Theoretic Controller for Smart Grid Applications. , 2020, , .		2
50	A Key-Agreement Scheme for Cyber-Physical Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5368-5373.	5.9	2
51	Estimation of the Connectivity of Random Graphs Through Q-Learning Techniques. IEEE Journal of Radio Frequency Identification, 2022, 6, 318-331.	1.5	2
52	Encrypted Cloud-Based Set-Theoretic Model Predictive Control. , 2022, 6, 3032-3037.		2
53	Networked control systems with state, input and communication constraints: A nonlinear approach. , 2012, , .		1
54	Finite-Time Flight Control of Uncertain Quadrotor UAV based on Modified Non-Singular Fast Terminal Super-Twisting Control. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
55	A receding horizon event-driven control strategy for intelligent traffic management. Discrete Event Dynamic Systems: Theory and Applications, 2021, 31, 469-488.	0.6	1
56	Covert Channels in Cyber-Physical Systems. , 2021, , .		1
57	A Supervisor-Based Control Architecture for Constrained Cyber-Physical Systems Subject to Network Attacks. IEEE Transactions on Control of Network Systems, 2022, , 1-11.	2.4	1
58	An obstacle avoidance model predictive control scheme: A sum-of-squares approach. , 2013, , .		0
59	A receding horizon scheme for discrete-time polytopic linear parameter varying systems in networked architectures. Journal of Physics: Conference Series, 2014, 570, 032001.	0.3	0
60	Verification and Control of Hybrid Systems Under Safety Requirements. IFAC-PapersOnLine, 2018, 51, 61-66.	0.5	0
61	A Flexible Distributed Control Strategy for Teams of Vehicles Moving within Severe Obstacle Scenarios. , 2019, , .		0
62	A Leader-Follower Set-theoretic Approach for Cyber-Physical Systems against Denial-of-Service Attacks. , 2019, , .		0
63	A Receding Horizon Battery Shortage Prevention Control Strategy for Electric Unmanned Vehicles. , 2020, , .		0
64	Command Governor Strategy Based on Region of Attraction. Journal of Control, Automation and Electrical Systems, 0, , 1.	1.2	0