Walter Lucia

List of Publications by Year in Descending Order

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	Undetectable Finite-Time Covert Attack on Constrained Cyber-Physical Systems. *IEEE Transactions on Control of Network Systems*, **2022**, 1-1	4	1
49	Estimation of the Connectivity of Random Graphs through Q-Learning Techniques. *IEEE Journal of Radio Frequency Identification*, **2022**, 1-1	2.4	
48	A Key-Agreement Scheme for Cyber-Physical Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-6	7.3	
47	A receding horizon event-driven control strategy for intelligent traffic management. *Discrete Event Dynamic Systems: Theory and Applications*, **2021**, 31, 469-488	1	
46	Covert Channels in Cyber-Physical Systems **2021**,		1
45	Setpoint Attack Detection in Cyber-Physical Systems. *IEEE Transactions on Automatic Control*, **2021**, 66, 2332-2338	5.9	4
44	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	4	14
43	A Distributed Model Predictive Control Strategy for Constrained Multi-Vehicle Systems Moving in Unknown Environments. *IEEE Transactions on Intelligent Vehicles*, **2021**, 6, 343-352	5	3
42	Guaranteed Collision-Free Reference Tracking in Constrained Multi Unmanned Vehicle Systems. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	0
41	Resilient model predictive control for constrained cyber-physical systems subject to severe attacks on the communication channels. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
40	A safety preserving control architecture for cyber-physical systems. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 3036-3053	3.6	
39	Covert Channels in Cyber-Physical Systems **2021**, 5, 1273-1278		5
38	A set-theoretic model predictive control approach for transient stability in smart grid. *IET Control Theory and Applications*, **2020**, 14, 700-707	2.5	2
37	Wyner wiretap-like encoding scheme for cyber-physical systems. *IET Cyber-Physical Systems: Theory and Applications*, **2020**, 5, 359-365	2.5	2
36	A Hybrid Command Governor Scheme for Rotary Wings Unmanned Aerial Vehicles. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 361-375	4.8	5
35	A Novel Networked Control Scheme with Safety Guarantees for Detection and Mitigation of Cyber-Attacks **2019**,		2
34	Resilient Control for Cyber-Physical Systems Subject to Replay Attacks **2019**, 3, 984-989		27

33	Multi-Vehicle Reference Tracking with Guaranteed Collision Avoidance **2019**,		1
32	A Novel Control Architecture for the Detection of False Data Injection Attacks in Networked Control Systems **2019**,		4
31	A Set-Theoretic Reconfiguration Feedback Control Scheme Against Simultaneous Stuck Actuators. *IEEE Transactions on Automatic Control*, **2018**, 63, 2558-2565	5.9	10
30	A distributed model predictive control scheme for leaderfollower multi-agent systems. *International Journal of Control*, **2018**, 91, 369-382	1.5	15
29	Distributed Receding Horizon Control of Constrained Networked LeaderFollower Formations Subject to Packet Dropouts. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1798-1809	4.8	12
28	A Command Governor Based Approach for Detection of Setpoint Attacks in Constrained Cyber-Physical Systems **2018**,		1
27	Distributed receding horizon control for rotating wings unmanned aerial vehicles: a time-varying topology strategy **2018**,		2
26	Verification and Control of Hybrid Systems Under Safety Requirements. *IFAC-PapersOnLine*, **2018**, 51, 61-66	0.7	
25	A reconfiguration control framework for constrained systems with sensor stuck faults. *International Journal of Robust and Nonlinear Control*, **2018**, 29, 1150	3.6	1
24	Cyber Meets Control: A Novel Federated Approach for Resilient CPS Leveraging Real Cyber Threat Intelligence **2017**, 55, 198-204		25
23	Command governor for constrained switched systems with scheduled model transition dwell times. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 4949-4967	3.6	2
22	Stabilization and reference tracking for constrained switching systems: A predictive control approach. *International Journal of Adaptive Control and Signal Processing*, **2017**, 31, 1871-1884	2.8	1
21	Multi-vehicle formation control in uncertain environments **2017**,		3
20	A set-theoretic control architecture for constrained switching systems **2016**,		3
19	A Receding Horizon Control Strategy for Autonomous Vehicles in Dynamic Environments. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 695-702	4.8	24
18	A set-theoretic approach for secure and resilient control of Cyber-Physical Systems subject to false data injection attacks **2016**,		19
17	Mobile robot localization via EKF and UKF: A comparison based on real data. *Robotics and Autonomous Systems*, **2015**, 74, 122-127	3.5	32
16	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	4	18

15	A networked-based receding horizon scheme for constrained LPV systems. *European Journal of Control*, **2015**, 25, 69-75	2.5	3
14	A networked-based MPC architecture for constrained LPV systems. *IFAC-PapersOnLine*, **2015**, 48, 158-163	3.7	2
13	A dwell-time based Command Governor approach for constrained switched systems **2015**,		3
12	Multiple stuck positions actuator faults: A model predictive based reconfigurable control scheme **2015**,		3
11	The obstacle avoidance motion planning problem for autonomous vehicles: A low-demanding receding horizon control scheme. *Systems and Control Letters*, **2015**, 77, 1-10	2.4	23
10	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	
9	A distributed obstacle avoidance MPC strategy for leader-follower formations. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 2570-2575		2
8	An obstacle avoidance and motion planning Command Governor based scheme: The Qball-X4 quadrotor case of study **2014**,		4
7	Extended and Unscented Kalman Filters for mobile robot localization and environment reconstruction **2013**,		3
6	An obstacle avoidance receding horizon control scheme for autonomous vehicles **2013**,		2
5	Networked control systems with state, input and communication constraints: A nonlinear approach **2012**,		1
4	Filters for mobile robots: EKF, UKF and sensor switching - experimental results **2011**,		3
3	Command Governor Strategy Based on Region of Attraction. *Journal of Control, Automation and Electrical Systems*,1	1.5	
2	Covert channels in stochastic cyber-physical systems. *IET Cyber-Physical Systems: Theory and Applications*,	2.5	2
1	Confidentiality attacks against encrypted control systems. *Cyber-Physical Systems*,1-20	1.1	0