Joaquin Carrasco

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Duality Bounds for Discrete-Time Zames–Falb Multipliers. IEEE Transactions on Automatic Control, 2022, 67, 3521-3528.	5.7	7
2	A Lyapunov-Lurye Functional Parametrization of Discrete-Time Zames-Falb Multipliers. , 2022, 6, 259-264.		1
3	Multipliers for Nonlinearities With Monotone Bounds. IEEE Transactions on Automatic Control, 2022, 67, 910-917.	5.7	5
4	Fault-tolerant cooperative navigation of networked UAV swarms for forest fire monitoring. Aerospace Science and Technology, 2022, 123, 107494.	4.8	57
5	Construction of a Destabilizing Nonlinearity for Discrete-Time Uncertain Lurye Systems. , 2022, 6, 2605-2610.		Ο
6	Phase limitations of generalised OZF multipliers: further results. , 2022, , .		0
7	A Novel Triad Twisted String Actuator for Controlling a Two Degrees of Freedom Joint: Design and Experimental Validation. , 2022, , .		0
8	Robust Stability of Barrier-Based Model Predictive Control. IEEE Transactions on Automatic Control, 2021, 66, 1879-1886.	5.7	9
9	Virtual Kinesthetic Teaching for Bimanual Telemanipulation. , 2021, , .		6
10	Autonomous Elbow Controller for Differential Drive In-Pipe Robots. Robotics, 2021, 10, 28.	3.5	8
11	Construction of Periodic Counterexamples to the Discrete-Time Kalman Conjecture. , 2021, , .		0
12	Omnipotent Virtual Giant for Remote Human–Swarm Interaction. , 2021, , .		3
13	Adaptive Impedance-Conditioned Phase-Locked Loop for the VSC Converter Connected to Weak Grid. Energies, 2021, 14, 6040.	3.1	4
14	Construction of Periodic Counterexamples to the Discrete-Time Kalman Conjecture. , 2021, 5, 1291-1296.		10
15	On numerical construction of worse-case convergence rates for Discrete-time Lurye systems with odd nonlinearities. , 2021, , .		0
16	A Model-free Deep Reinforcement Learning Approach for Robotic Manipulators Path Planning. , 2021, , .		4
17	Vibration analysis for large-scale wind turbine blade bearing fault detection with an empirical wavelet thresholding method. Renewable Energy, 2020, 146, 99-110.	8.9	96
18	Discrete-time counterparts of the RL and RC multipliers. International Journal of Control, 2020, 93, 1180-1193.	1.9	2

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19	Convex Searches for Discrete-Time Zames–Falb Multipliers. IEEE Transactions on Automatic Control, 2020, 65, 4538-4553.	5.7	26
20	Zames–Falb multipliers for convergence rate: motivating example and convex searches. International Journal of Control, 2020, , 1-9.	1.9	3
21	Voronoi-Based Multi-Robot Autonomous Exploration in Unknown Environments via Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 14413-14423.	6.3	190
22	Tuning and sensitivity analysis of a hexapod state estimator. Robotics and Autonomous Systems, 2020, 129, 103509.	5.1	2
23	On Lyapunov-Lur'e functional based stability criterion for discrete-time Lur'e systems. IFAC-PapersOnLine, 2020, 53, 6364-6369.	0.9	1
24	Intuitive Bare-Hand Teleoperation of a Robotic Manipulator Using Virtual Reality and Leap Motion. Lecture Notes in Computer Science, 2019, , 283-294.	1.3	21
25	MallARD: An Autonomous Aquatic Surface Vehicle for Inspection and Monitoring of Wet Nuclear Storage Facilities. Robotics, 2019, 8, 47.	3.5	22
26	Elbow Detection in Pipes for Autonomous Navigation of Inspection Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 527-541.	3.4	18
27	Conditions for the equivalence between IQC and graph separation stability results. International Journal of Control, 2019, 92, 2899-2906.	1.9	9
28	IQC analysis of reset control systems with time-varying delay. International Journal of Control, 2019, 92, 2007-2014.	1.9	3
29	Analysis of steady-state power transfer capability and dynamic performance of VSC-HVDC with impedance-compensated synchronisation method connected to weak AC grid. , 2019, , .		0
30	Improving thermal substation inspections utilising machine learning. , 2019, , .		0
31	Phase Limitations of Zames–Falb Multipliers. IEEE Transactions on Automatic Control, 2018, 63, 947-959.	5.7	20
32	Towards a Proof of the Kalman Conjecture for the Second Order Systems with Time-Delay. , 2018, , .		0
33	Phase Properties of the Generalised Zames- Falb Multipliers. , 2018, , .		1
34	Kalman Conjecture for Resonant Second-Order Systems with Time Delay. , 2018, , .		3
35	The Pond Cleaning System. , 2018, , .		0
36	Evaluation of a State Observer for Frequency Estimation in a Grid Tied Photovoltaic Inverter. , 2018, , .		0

Evaluation of a State Observer for Frequency Estimation in a Grid Tied Photovoltaic Inverter., 2018,,. 36

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37	A Hybrid Underwater Acoustic and RF Localisation System for Enclosed Environments Using Sensor Fusion. Lecture Notes in Computer Science, 2018, , 369-380.	1.3	2
38	Absolute Stability of Systems With Integrator and/or Time Delay via Off-Axis Circle Criterion. , 2018, 2, 411-416.		5
39	Comment on "Absolute stability analysis for negative-imaginary systems―[Automatica 67 (2016) 107–113]. Automatica, 2017, 85, 486-488.	5.0	4
40	Stability Analysis of Bilateral Teleoperation With Bounded and Monotone Environments via Zames–Falb Multipliers. IEEE Transactions on Control Systems Technology, 2017, 25, 1331-1344.	5.2	16
41	Discrete-time counterparts of the RL and RC multipliers. , 2017, , .		0
42	Convex LMI approach for stability of critically stable systems with slope-restricted nonlinearities. , 2016, , .		1
43	Bilateral Teleoperation with Nonlinear Environments: Multiplier Approach. IFAC-PapersOnLine, 2016, 49, 308-313.	0.9	Ο
44	Zames–Falb multipliers for absolute stability: From O׳Shea׳s contribution to convex searches. European Journal of Control, 2016, 28, 1-19.	2.6	65
45	Global asymptotic stability for a class of discrete-time systems. , 2015, , .		7
46	Teleoperation with memoryless, monotone, and bounded environments: A Zames-Falb multiplier approach. , 2015, , .		2
47	Integral quadratic constraint theorem: A topological separation approach. , 2015, , .		8
48	A Less Conservative LMI Condition for Stability of Discrete-Time Systems With Slope-Restricted Nonlinearities. IEEE Transactions on Automatic Control, 2015, 60, 1692-1697.	5.7	30
49	Phase limitations of discrete-time Zames-Falb multipliers. , 2015, , .		2
50	Stability analysis of asymmetric saturation via generalised Zames-Falb multipliers. , 2015, , .		8
51	Second-order counterexample to the discrete-time Kalman conjecture. , 2015, , .		21
52	Zames-Falb multipliers for absolute stability: From O'Shea's contribution to convex searches. , 2015, , .		5
53	Second-order counterexamples to the discrete-time Kalman conjecture. Automatica, 2015, 60, 140-144.	5.0	63
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A complete and convex search for discrete-time noncausal FIR Zames-Falb multipliers. , 2014, , .

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55	On multipliers for bounded and monotone nonlinearities. Systems and Control Letters, 2014, 66, 65-71.	2.3	13
56	LMI searches for anticausal and noncausal rational Zames–Falb multipliers. Systems and Control Letters, 2014, 70, 17-22.	2.3	31
57	Equivalence between classes of multipliers for slope-restricted nonlinearities. Automatica, 2013, 49, 1732-1740.	5.0	40
58	Towards -stability of discrete-time reset control systems via dissipativity theory. Systems and Control Letters, 2013, 62, 525-530.	2.3	20
59	IQC analysis for time-delay reset control systems with first order reset elements. , 2013, , .		2
60	Themed Project Case Study: Quadruple Tanks Control with PLCs. International Journal of Electrical Engineering and Education, 2013, 50, 279-292.	0.8	4
61	LMI searches for discrete-time Zames-Falb multipliers. , 2013, , .		13
62	Team organization and participation in the Eurobot 2012 contest. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 180-185.	0.4	0
63	On multipliers for bounded and monotone nonlinearities. , 2013, , .		1
64	A Robust Kalman Conjecture For First-Order Plants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 27-32.	0.4	10
65	Reset Control of an Industrial In-Line pH Process. IEEE Transactions on Control Systems Technology, 2012, 20, 1100-1106.	5.2	23
66	Revisited Jury-Lee criterion for multivariable discrete-time Lur'e systems: Convex LMI search. , 2012, , .		4
67	LMI search for rational anticausal Zames-Falb multipliers. , 2012, , .		10
68	Equivalence between classes of multipliers for slope-restricted nonlinearities. , 2012, , .		1
69	Comments on "On the Existence of Stable, Causal Multipliers for Systems With Slope-Restricted Nonlinearitiesâ€: IEEE Transactions on Automatic Control, 2012, 57, 2422-2428.	5.7	34
70	Factorization of multipliers in passivity and IQC analysis. Automatica, 2012, 48, 909-916.	5.0	16
71	Reset Times-Dependent Stability of Reset Control Systems. IEEE Transactions on Automatic Control, 2011, 56, 217-223.	5.7	71

72 On the design of reset systems with unstable base: A fixed reset-time approach. , 2011, , .

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73	Reset Control for Passive Bilateral Teleoperation. IEEE Transactions on Industrial Electronics, 2011, 58, 3037-3045.	7.9	69
74	Factorization of multipliers in passivity and IQC analysis. , 2011, , .		4
75	A passivity-based approach to reset control systems stability. Systems and Control Letters, 2010, 59, 18-24.	2.3	67
76	Reset control of an industrial in-line pH process. , 2009, , .		4
77	Reset control for passive teleoperation. , 2008, , .		9
78	Stability of reset control systems with inputs. , 2008, , .		2
79	Reset times-dependent stability of reset control with unstable base systems. , 2007, , .		13
80	Reset times-dependent stability of reset control systems. , 2007, , .		5
81	Super-attracting periodic orbits for a classical third order method. Journal of Computational and Applied Mathematics, 2007, 206, 599-602.	2.0	1