

Robert N Shorten

List of Publications by Year in Descending Order

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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.

91
papers

1,421
citations

15
h-index

35
g-index

98
ext. papers

1,765
ext. citations

4.5
avg, IF

5.08
L-index

#	Paper	IF	Citations
91	A Numerical Study on Constant Spacing Policies for Starting Platoons at Oversaturated Intersections. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
90	Markovian city-scale modelling and mitigation of micro-particles from tires. <i>PLoS ONE</i> , 2021 , 16, e0260236	3.7	0
89	Secure Access Control for DAG-based Distributed Ledgers. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
88	A Note on Order and Index Reduction for Descriptor Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
87	On the Derivation of Stability Properties for Time-Delay Systems Without Constraint on the Time-Derivative of the Initial Condition. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 5401-5406	5.9	0
86	Integral action for setpoint regulation control of a reaction-diffusion equation in the presence of a state delay. <i>Automatica</i> , 2021 , 134, 109935	5.7	0
85	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 11112-11122	10.7	1
84	An Optimized Decentralized Power Sharing Strategy for Wind Farm De-Loading. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 136-146	7	6
83	Robustness of constant-delay predictor feedback for in-domain stabilization of reaction-diffusion PDEs with time- and spatially-varying input delays. <i>Automatica</i> , 2021 , 123, 109347	5.7	6
82	Post-lockdown abatement of COVID-19 by fast periodic switching. <i>PLoS Computational Biology</i> , 2021 , 17, e1008604	5	19
81	Predictability and Fairness in Social Sensing. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
80	Hysteresis-based supervisory control with application to non-pharmaceutical containment of COVID-19. <i>Annual Reviews in Control</i> , 2021 , 52, 508-522	10.3	0
79	Access Control for Distributed Ledgers in the Internet of Things: A Networking Approach. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	3
78	In-domain stabilization of block diagonal infinite-dimensional systems with time-varying input delays. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
77	H ₂ and H _∞ analysis and state feedback control design for discrete-time constrained switched linear systems. <i>International Journal of Control</i> , 2020 , 1-12	1.5	1
76	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 7112-7122	10.7	15
75	Boundary feedback stabilization of a reaction-diffusion equation with Robin boundary conditions and state-delay. <i>Automatica</i> , 2020 , 116, 108931	5.7	11

74	Kemeny-based testing for COVID-19. <i>PLoS ONE</i> , 2020 , 15, e0242401	3.7	3
73	Robustness of Constant-Delay Predictor Feedback with Respect to Distinct Uncertain Time-Varying Input Delays. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7677-7682	0.7	2
72	Spatial Positioning Token (SPToken) for Smart Mobility. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-14	6.1	1
71	Distributed Ledger Enabled Control of Tyre Induced Particulate Matter in Smart Cities. <i>Frontiers in Sustainable Cities</i> , 2020 , 2,	2.2	3
70	Low Tyre Particle Control 2020 ,		2
69	Exponential input-to-state stabilization of a class of diagonal boundary control systems with delay boundary control. <i>Systems and Control Letters</i> , 2020 , 138, 104651	2.4	9
68	On the Stability of Unverified Transactions in a DAG-Based Distributed Ledger. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3772-3783	5.9	13
67	SPR based design conditions for quadratic stability of multi-mode switched linear systems. <i>Automatica</i> , 2020 , 122, 109254	5.7	2
66	I-nteract: A Cyber-Physical System for Real-Time Interaction With Physical and Virtual Objects Using Mixed Reality Technologies for Additive Manufacturing. <i>IEEE Access</i> , 2020 , 8, 98761-98774	3.5	4
65	Input-to-State Stability of a Clamped-Free Damped String in the Presence of Distributed and Boundary Disturbances. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1248-1255	5.9	7
64	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
63	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
62	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
61	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
60	An LMI condition for the robustness of constant-delay linear predictor feedback with respect to uncertain time-varying input delays. <i>Automatica</i> , 2019 , 109, 108551	5.7	25
59	Nonhomogeneous Place-dependent Markov Chains, Unsynchronised AIMD, and Optimisation. <i>Journal of the ACM</i> , 2019 , 66, 1-37	2	3
58	Augmented Reality, Cyber-Physical Systems, and Feedback Control for Additive Manufacturing: A Review. <i>IEEE Access</i> , 2019 , 7, 50119-50135	3.5	13
57	A Vehicle-in-the-Loop Emulation Platform for Demonstrating Intelligent Transportation Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2019 , 133-154	0.5	1

56	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1535-1549	5.9	4
55	A Context-Aware E-Bike System to Reduce Pollution Inhalation While Cycling. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 704-715	6.1	13
54	ISS Property with respect to boundary disturbances for a class of Riesz-spectral boundary control systems. <i>Automatica</i> , 2019 , 109, 108504	5.7	14
53	On the ergodic control of ensembles. <i>Automatica</i> , 2019 , 108, 108483	5.7	2
52	Control Law Realification for the Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control 2019 , 3, 930-935		8
51	Spatial Positioning Token (SPToken) for Smart Mobility 2019 ,		4
50	On the design of cyber-physical control system for a smart pedelec (Ebike) 2019 ,		4
49	Ad-hocChain: Cooperative Sharing and Trading Infrastructure for Electric Vehicle Charging Networks 2019 ,		1
48	A Distributed Markovian Parking Assist System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 2230-2240	6.1	9
47	On Synchronization in Continuous-Time Networks of Nonlinear Nodes With State-Dependent and Degenerate Noise Diffusion. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 389-395	5.9	22
46	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 3992-3999	6.1	8
45	Stochastic Frequency Control of Grid-Connected Microgrids. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 5704-5713	7	29
44	On common noise-induced synchronization in complex networks with state-dependent noise diffusion processes. <i>Physica D: Nonlinear Phenomena</i> , 2018 , 369, 47-54	3.3	24
43	An assessment on the use of stationary vehicles to support cooperative positioning systems*View all notes. <i>International Journal of Control</i> , 2018 , 91, 608-621	1.5	4
42	On analysis and design of discrete-time constrained switched systems*View all notes. <i>International Journal of Control</i> , 2018 , 91, 437-452	1.5	9
41	Leader and Leaderless Multi-Layer Consensus With State Obfuscation: An Application to Distributed Speed Advisory Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 711-721	6.1	11
40	Pedestrian-Aware Engine Management Strategies for Plug-In Hybrid Electric Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 92-101	6.1	11
39	Localizing Missing Entities Using Parked Vehicles: An RFID-Based System. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 4018-4030	10.7	9

38	Communication-efficient Distributed Multi-resource Allocation 2018 ,		2
37	On the Design of an Intelligent Speed Advisory System for Cyclists 2018 ,		2
36	Regulating the Searching Behaviour of Parked Vehicles Attempting to Locate Moving, Missing Entities 2018 ,		1
35	dockChain: A Solution for Electric Vehicles Charge Point Anxiety 2018 ,		1
34	Context-Based Cyclist Intelligent Support: An Approach to e-Bike Control Based on Smartphone Sensors. <i>Lecture Notes in Computer Science</i> , 2018 , 16-22	0.9	3
33	Distributed Ledger Technology for Smart Cities, the Sharing Economy, and Social Compliance. <i>IEEE Access</i> , 2018 , 6, 62728-62746	3.5	48
32	A Note on Recursive Schur Complements, Block Hurwitz Stability of Metzler Matrices, and Related Results. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 4167-4172	5.9	7
31	Smart Procurement of Naturally Generated Energy (SPONGE) for Plug-In Hybrid Electric Buses. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 598-607	4.9	9
30	Switching Controller Design With Dwell-Times and Sampling. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5837-5843	5.9	21
29	On classical control and smart cities 2017 ,		8
28	A hidden Markov model for route and destination prediction 2017 ,		15
27	Hybrid urban navigation for smart cities 2017 ,		5
26	On charge point anxiety and the sharing economy 2017 ,		4
25	On the Design of Campus Parking Systems With QoS Guarantees. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 1428-1437	6.1	23
24	Smart procurement of naturally generated energy (SPONGE) for PHEVs. <i>International Journal of Control</i> , 2016 , 89, 1467-1480	1.5	9
23	On the design of a route parsing engine for connected vehicles with applications to congestion management systems 2016 ,		6
22	r-extreme signalling for congestion control. <i>International Journal of Control</i> , 2016 , 89, 1972-1984	1.5	4
21	Signalling and obfuscation for congestion control. <i>International Journal of Control</i> , 2015 , 88, 2086-2096	1.5	7

20	A Large-Scale SUMO-Based Emulation Platform. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 3050-3059	6.1	28
19	A framework for real-time emissions trading in large-scale vehicle fleets. <i>IET Intelligent Transport Systems</i> , 2015 , 9, 275-284	2.4	5
18	Localization of missing entities using parked cars 2015 ,		4
17	A big-data model for multi-modal public transportation with application to macroscopic control and optimisation. <i>International Journal of Control</i> , 2015 , 88, 2354-2368	1.5	19
16	On the quadratic stability of switched linear systems associated with symmetric transfer function matrices. <i>Automatica</i> , 2014 , 50, 2872-2879	5.7	9
15	Stochastic Park-and-Charge Balancing for Fully Electric and Plug-in Hybrid Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 895-901	6.1	48
14	Parked cars as a service delivery platform 2014 ,		12
13	Using stationary vehicles to enhance cooperative positioning in Vehicular Ad-hoc Networks 2014 ,		2
12	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1572-1585	6.1	19
11	An extension of the KYP-lemma for the design of state-dependent switching systems with uncertainty. <i>Systems and Control Letters</i> , 2013 , 62, 626-631	2.4	2
10	A new stability result for switched linear systems 2013 ,		2
9	A characterisation of common diagonal stability over cones. <i>Linear and Multilinear Algebra</i> , 2012 , 60, 1117-1123	0.7	6
8	On a class of generalized eigenvalue problems and equivalent eigenvalue problems that arise in systems and control theory. <i>Automatica</i> , 2011 , 47, 431-442	5.7	10
7	On the Characterization of Strict Positive Realness for General Matrix Transfer Functions. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1899-1904	5.9	16
6	Preservation of common quadratic Lyapunov functions and Padé approximations 2010 ,		4
5	On a theorem of Redheffer concerning diagonal stability. <i>Linear Algebra and Its Applications</i> , 2009 , 431, 2317-2329	0.9	15
4	Quadratic Stability and Singular SISO Switching Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2714-2718	5.9	21
3	Stability Criteria for Switched and Hybrid Systems. <i>SIAM Review</i> , 2007 , 49, 545-592	7.4	667

2	Electric and Plug-in Hybrid Vehicle Networks	15
1	Active Limitation of Tire Wear and Emissions for Electrified Vehicles	2