

# Robert N Shorten

## List of Publications by Year in descending order

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97  
papers

2,079  
citations

361413

20  
h-index

265206

42  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictability and Fairness in Social Sensing. IEEE Internet of Things Journal, 2022, 9, 37-54.	8.7	2
2	Access Control for Distributed Ledgers in the Internet of Things: A Networking Approach. IEEE Internet of Things Journal, 2022, 9, 2277-2292.	8.7	10
3	Spatial Positioning Token (SPToken) for Smart Mobility. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1529-1542.	8.0	1
4	Secure Access Control for DAG-Based Distributed Ledgers. IEEE Internet of Things Journal, 2022, 9, 10792-10806.	8.7	5
5	Electric Vehicle Ensembles for Quality of Service Based Mitigation of Renewable Production Risk. , 2022, , .		0
6	A non-Invasive Tyre-Emission Mitigation Strategy for Vehicles with Over-Actuated Traction Control. , 2022, , .		0
7	A Numerical Study on Constant Spacing Policies for Starting Platoons at Oversaturated Intersections. IEEE Access, 2022, 10, 43766-43786.	4.2	4
8	$\hat{A}^{(2)}$ and $\hat{A}^{\tilde{z}}$ analysis and state feedback control design for discrete-time constrained switched linear systems. International Journal of Control, 2021, 94, 2834-2845.	1.9	2
9	An Optimized Decentralized Power Sharing Strategy for Wind Farm De-Loading. IEEE Transactions on Power Systems, 2021, 36, 136-146.	6.5	17
10	Robustness of constant-delay predictor feedback for in-domain stabilization of reaction-diffusion PDEs with time- and spatially-varying input delays. Automatica, 2021, 123, 109347.	5.0	15
11	Post-lockdown abatement of COVID-19 by fast periodic switching. PLoS Computational Biology, 2021, 17, e1008604.	3.2	43
12	Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies. IEEE Internet of Things Journal, 2021, 8, 11112-11122.	8.7	18
13	Hysteresis-based supervisory control with application to non-pharmaceutical containment of COVID-19. Annual Reviews in Control, 2021, 52, 508-522.	7.9	0
14	In-Domain Stabilization of Block Diagonal Infinite-Dimensional Systems With Time-Varying Input Delays. IEEE Transactions on Automatic Control, 2021, 66, 6017-6024.	5.7	3
15	A Note on Order and Index Reduction for Descriptor Systems. IEEE Transactions on Automatic Control, 2021, , 1-1.	5.7	0
16	On the Derivation of Stability Properties for Time-Delay Systems Without Constraint on the Time-Derivative of the Initial Condition. IEEE Transactions on Automatic Control, 2021, 66, 5401-5406.	5.7	0
17	Integral action for setpoint regulation control of a reaction-diffusion equation in the presence of a state delay. Automatica, 2021, 134, 109935.	5.0	4
18	Markovian city-scale modelling and mitigation of micro-particles from tires. PLoS ONE, 2021, 16, e0260226.	2.5	2

#	ARTICLE	IF	CITATIONS
19	An Optimized Decentralized Power Sharing Strategy for Wind Farm De-Loading. , 2021, , .		0
20	Tire Particle Control with Comfort Bounds for Electric Vehicles. , 2021, , .		1
21	Input-to-State Stability of a Clamped-Free Damped String in the Presence of Distributed and Boundary Disturbances. IEEE Transactions on Automatic Control, 2020, 65, 1248-1255.	5.7	13
22	On the Stability of Unverified Transactions in a DAG-Based Distributed Ledger. IEEE Transactions on Automatic Control, 2020, 65, 3772-3783.	5.7	32
23	SPR based design conditions for quadratic stability of multi-mode switched linear systems. Automatica, 2020, 122, 109254.	5.0	6
24	Interact: A Cyber-Physical System for Real-Time Interaction With Physical and Virtual Objects Using Mixed Reality Technologies for Additive Manufacturing. IEEE Access, 2020, 8, 98761-98774.	4.2	12
25	On the Resilience of DAG-Based Distributed Ledgers in IoT Applications. IEEE Internet of Things Journal, 2020, 7, 7112-7122.	8.7	32
26	Boundary feedback stabilization of a reactionâ€“diffusion equation with Robin boundary conditions and state-delay. Automatica, 2020, 116, 108931.	5.0	23
27	Exponential input-to-state stabilization of a class of diagonal boundary control systems with delay boundary control. Systems and Control Letters, 2020, 138, 104651.	2.3	13
28	Kemeny-based testing for COVID-19. PLoS ONE, 2020, 15, e0242401.	2.5	10
29	Robustness of Constant-Delay Predictor Feedback with Respect to Distinct Uncertain Time-Varying Input Delays. IFAC-PapersOnLine, 2020, 53, 7677-7682.	0.9	5
30	Distributed Ledger Enabled Control of Tyre Induced Particulate Matter in Smart Cities. Frontiers in Sustainable Cities, 2020, 2, .	2.4	5
31	Low Tyre Particle Control. , 2020, , .		4
32	Kemeny-based testing for COVID-19. , 2020, 15, e0242401.		0
33	Kemeny-based testing for COVID-19. , 2020, 15, e0242401.		0
34	Kemeny-based testing for COVID-19. , 2020, 15, e0242401.		0
35	Kemeny-based testing for COVID-19. , 2020, 15, e0242401.		0
36	A Vehicle-in-the-Loop Emulation Platform for Demonstrating Intelligent Transportation Systems. Lecture Notes in Control and Information Sciences, 2019, , 133-154.	1.0	2

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37	On the SPRification of Linear Descriptor Systems via Output Feedback. IEEE Transactions on Automatic Control, 2019, 64, 1535-1549.	5.7	8
38	A Context-Aware E-Bike System to Reduce Pollution Inhalation While Cycling. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 704-715.	8.0	24
39	ISS Property with respect to boundary disturbances for a class of Riesz-spectral boundary control systems. Automatica, 2019, 109, 108504.	5.0	20
40	On the ergodic control of ensembles. Automatica, 2019, 108, 108483.	5.0	9
41	Control Law Realification for the Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control. , 2019, 3, 930-935.		9
42	An LMI condition for the robustness of constant-delay linear predictor feedback with respect to uncertain time-varying input delays. Automatica, 2019, 109, 108551.	5.0	35
43	Nonhomogeneous Place-dependent Markov Chains, Unsynchronised AIMD, and Optimisation. Journal of the ACM, 2019, 66, 1-37.	2.2	9
44	Augmented Reality, Cyber-Physical Systems, and Feedback Control for Additive Manufacturing: A Review. IEEE Access, 2019, 7, 50119-50135.	4.2	33
45	ISS of a Clamped-Free Damped String for the Configurations Associated with the Loss of the Riesz-Spectral Properties. , 2019, , .		0
46	Spatial Positioning Token (SPToken) for Smart Mobility. , 2019, , .		4
47	On the design of cyber-physical control system for a smart pedelec (Ebike). , 2019, , .		6
48	Ad-hocChain: Cooperative Sharing and Trading Infrastructure for Electric Vehicle Charging Networks. , 2019, , .		1
49	A Distributed Markovian Parking Assist System. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2230-2240.	8.0	16
50	On Synchronization in Continuous-Time Networks of Nonlinear Nodes With State-Dependent and Degenerate Noise Diffusion. IEEE Transactions on Automatic Control, 2019, 64, 389-395.	5.7	32
51	A New Take on Protecting Cyclists in Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3992-3999.	8.0	10
52	Stochastic Frequency Control of Grid-Connected Microgrids. IEEE Transactions on Power Systems, 2018, 33, 5704-5713.	6.5	47
53	On common noise-induced synchronization in complex networks with state-dependent noise diffusion processes. Physica D: Nonlinear Phenomena, 2018, 369, 47-54.	2.8	29
54	An assessment on the use of stationary vehicles to support cooperative positioning systems. International Journal of Control, 2018, 91, 608-621.	1.9	6

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55	On analysis and design of discrete-time constrained switched systems. International Journal of Control, 2018, 91, 437-452.	1.9	10
56	Leader and Leaderless Multi-Layer Consensus With State Obfuscation: An Application to Distributed Speed Advisory Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 711-721.	8.0	17
57	Pedestrian-Aware Engine Management Strategies for Plug-In Hybrid Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 92-101.	8.0	14
58	Communication-efficient Distributed Multi-resource Allocation. , 2018, , .		5
59	On the Design of an Intelligent Speed Advisory System for Cyclists. , 2018, , .		8
60	Regulating the Searching Behaviour of Parked Vehicles Attempting to Locate Moving, Missing Entities. , 2018, , .		1
61	Derandomized Distributed Multi-resource Allocation with Little Communication Overhead. , 2018, , .		3
62	Identification of New Patterns in Urban Traffic Flows. , 2018, , .		1
63	dockChain: A Solution for Electric Vehicles Charge Point Anxiety. , 2018, , .		3
64	Distributed Ledger Technology for Smart Cities, the Sharing Economy, and Social Compliance. IEEE Access, 2018, 6, 62728-62746.	4.2	82
65	Localizing Missing Entities Using Parked Vehicles: An RFID-Based System. IEEE Internet of Things Journal, 2018, 5, 4018-4030.	8.7	15
66	A Note on Recursive Schur Complements, Block Hurwitz Stability of Metzler Matrices, and Related Results. IEEE Transactions on Automatic Control, 2017, 62, 4167-4172.	5.7	9
67	Smart Procurement of Naturally Generated Energy (SPONGE) for Plug-In Hybrid Electric Buses. IEEE Transactions on Automation Science and Engineering, 2017, 14, 598-607.	5.2	9
68	Switching Controller Design With Dwell-Times and Sampling. IEEE Transactions on Automatic Control, 2017, 62, 5837-5843.	5.7	40
69	On classical control and smart cities. , 2017, , .		9
70	A hidden Markov model for route and destination prediction. , 2017, , .		26
71	Hybrid urban navigation for smart cities. , 2017, , .		10
72	On charge point anxiety and the sharing economy. , 2017, , .		4

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73	On the design of a route parsing engine for connected vehicles with applications to congestion management systems. , 2016, , .		8
74	<i>r</i>-extreme signalling for congestion control. International Journal of Control, 2016, 89, 1972-1984.	1.9	7
75	On the Design of Campus Parking Systems With QoS Guarantees. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1428-1437.	8.0	32
76	Smart procurement of naturally generated energy (SPONGE) for PHEVs. International Journal of Control, 2016, 89, 1467-1480.	1.9	10
77	A framework for real-time emissions trading in large-scale vehicle fleets. IET Intelligent Transport Systems, 2015, 9, 275-284.	3.0	6
78	Localization of missing entities using parked cars. , 2015, , .		4
79	A big-data model for multi-modal public transportation with application to macroscopic control and optimisation. International Journal of Control, 2015, 88, 2354-2368.	1.9	23
80	Signalling and obfuscation for congestion control. International Journal of Control, 2015, 88, 2086-2096.	1.9	9
81	A Large-Scale SUMO-Based Emulation Platform. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3050-3059.	8.0	35
82	Parked cars as a service delivery platform. , 2014, , .		16
83	Using stationary vehicles to enhance cooperative positioning in Vehicular Ad-hoc Networks. , 2014, , .		2
84	On the quadratic stability of switched linear systems associated with symmetric transfer function matrices. Automatica, 2014, 50, 2872-2879.	5.0	10
85	Stochastic Park-and-Charge Balancing for Fully Electric and Plug-in Hybrid Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 895-901.	8.0	67
86	Cooperative Regulation and Trading of Emissions Using Plug-in Hybrid Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1572-1585.	8.0	23
87	An extension of the KYP-lemma for the design of state-dependent switching systems with uncertainty. Systems and Control Letters, 2013, 62, 626-631.	2.3	3
88	A new stability result for switched linear systems. , 2013, , .		2
89	A characterisation of common diagonal stability over cones. Linear and Multilinear Algebra, 2012, 60, 1117-1123.	1.0	9
90	On a class of generalized eigenvalue problems and equivalent eigenvalue problems that arise in systems and control theory. Automatica, 2011, 47, 431-442.	5.0	12

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91	On the Characterization of Strict Positive Realness for General Matrix Transfer Functions. IEEE Transactions on Automatic Control, 2010, 55, 1899-1904.	5.7	24
92	Preservation of common quadratic Lyapunov functions and Padé approximations. , 2010, , .		4
93	On a theorem of Redheffer concerning diagonal stability. Linear Algebra and Its Applications, 2009, 431, 2317-2329.	0.9	17
94	Quadratic Stability and Singular SISO Switching Systems. IEEE Transactions on Automatic Control, 2009, 54, 2714-2718.	5.7	32
95	Stability Criteria for Switched and Hybrid Systems. SIAM Review, 2007, 49, 545-592.	9.5	845
96	Active Limitation of Tire Wear and Emissions for Electrified Vehicles. , 0, , .		6
97	Electric and Plug-in Hybrid Vehicle Networks. , 0, , .		21