Robert N Shorten

List of Publications by Citations

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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	Stability Criteria for Switched and Hybrid Systems. *SIAM Review*, **2007**, 49, 545-592	7.4	667
90	Stochastic Park-and-Charge Balancing for Fully Electric and Plug-in Hybrid Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 895-901	6.1	48
89	Distributed Ledger Technology for Smart Cities, the Sharing Economy, and Social Compliance. *IEEE Access*, **2018**, 6, 62728-62746	3.5	48
88	Stochastic Frequency Control of Grid-Connected Microgrids. *IEEE Transactions on Power Systems*, **2018**, 33, 5704-5713	7	29
87	A Large-Scale SUMO-Based Emulation Platform. *IEEE Transactions on Intelligent Transportation Systems*, **2015**, 16, 3050-3059	6.1	28
86	An LMI condition for the robustness of constant-delay linear predictor feedback with respect to uncertain time-varying input delays. *Automatica*, **2019**, 109, 108551	5.7	25
85	On common noise-induced synchronization in complex networks with state-dependent noise diffusion processes. *Physica D: Nonlinear Phenomena*, **2018**, 369, 47-54	3.3	24
84	On the Design of Campus Parking Systems With QoS Guarantees. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 1428-1437	6.1	23
83	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	5.9	22
82	Switching Controller Design With Dwell-Times and Sampling. *IEEE Transactions on Automatic Control*, **2017**, 62, 5837-5843	5.9	21
81	Quadratic Stability and Singular SISO Switching Systems. *IEEE Transactions on Automatic Control*, **2009**, 54, 2714-2718	5.9	21
80	. *IEEE Transactions on Intelligent Transportation Systems*, **2013**, 14, 1572-1585	6.1	19
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	1.5	19
78	Post-lockdown abatement of COVID-19 by fast periodic switching. *PLoS Computational Biology*, **2021**, 17, e1008604	5	19
77	On the Characterization of Strict Positive Realness for General Matrix Transfer Functions. *IEEE Transactions on Automatic Control*, **2010**, 55, 1899-1904	5.9	16
76	. *IEEE Internet of Things Journal*, **2020**, 7, 7112-7122	10.7	15
75	A hidden Markov model for route and destination prediction **2017**,		15

74	On a theorem of Redheffer concerning diagonal stability. *Linear Algebra and Its Applications*, **2009**, 431, 2317-2329	0.9	15
73	Electric and Plug-in Hybrid Vehicle Networks		15
72	ISS Property with respect to boundary disturbances for a class of Riesz-spectral boundary control systems. *Automatica*, **2019**, 109, 108504	5.7	14
71	Augmented Reality, Cyber-Physical Systems, and Feedback Control for Additive Manufacturing: A Review. *IEEE Access*, **2019**, 7, 50119-50135	3.5	13
70	A Context-Aware E-Bike System to Reduce Pollution Inhalation While Cycling. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 704-715	6.1	13
69	On the Stability of Unverified Transactions in a DAG-Based Distributed Ledger. *IEEE Transactions on Automatic Control*, **2020**, 65, 3772-3783	5.9	13
68	Parked cars as a service delivery platform **2014**,		12
67	Boundary feedback stabilization of a reaction–diffusion equation with Robin boundary conditions and state-delay. *Automatica*, **2020**, 116, 108931	5.7	11
66	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	6.1	11
65	Pedestrian-Aware Engine Management Strategies for Plug-In Hybrid Electric Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 92-101	6.1	11
64	On a class of generalized eigenvalue problems and equivalent eigenvalue problems that arise in systems and control theory. *Automatica*, **2011**, 47, 431-442	5.7	10
63	Smart Procurement of Naturally Generated Energy (SPONGE) for Plug-In Hybrid Electric Buses. *IEEE Transactions on Automation Science and Engineering*, **2017**, 14, 598-607	4.9	9
62	On analysis and design of discrete-time constrained switched systems*View all notes. *International Journal of Control*, **2018**, 91, 437-452	1.5	9
61	Smart procurement of naturally generated energy (SPONGE) for PHEVs. *International Journal of Control*, **2016**, 89, 1467-1480	1.5	9
60	Localizing Missing Entities Using Parked Vehicles: An RFID-Based System. *IEEE Internet of Things Journal*, **2018**, 5, 4018-4030	10.7	9
59	On the quadratic stability of switched linear systems associated with symmetric transfer function matrices. *Automatica*, **2014**, 50, 2872-2879	5.7	9
58	Exponential input-to-state stabilization of a class of diagonal boundary control systems with delay boundary control. *Systems and Control Letters*, **2020**, 138, 104651	2.4	9
57	A Distributed Markovian Parking Assist System. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 2230-2240	6.1	9

56	. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 3992-3999	6.1	8
55	Control Law Realification for the Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control **2019**, 3, 930-935		8
54	On classical control and smart cities **2017**,		8
53	A Note on Recursive Schur Complements, Block Hurwitz Stability of Metzler Matrices, and Related Results. *IEEE Transactions on Automatic Control*, **2017**, 62, 4167-4172	5.9	7
52	Signalling and obfuscation for congestion control. *International Journal of Control*, **2015**, 88, 2086-2096	1.5	7
51	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	5.9	7
50	A characterisation of common diagonal stability over cones. *Linear and Multilinear Algebra*, **2012**, 60, 1117-1123	0.7	6
49	On the design of a route parsing engine for connected vehicles with applications to congestion management systems **2016**,		6
48	An Optimized Decentralized Power Sharing Strategy for Wind Farm De-Loading. *IEEE Transactions on Power Systems*, **2021**, 36, 136-146	7	6
47	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	5.7	6
46	Hybrid urban navigation for smart cities **2017**,		5
45	A framework for real-time emissions trading in large-scale vehicle fleets. *IET Intelligent Transport Systems*, **2015**, 9, 275-284	2.4	5
44	An assessment on the use of stationary vehicles to support cooperative positioning systems1View all notes. *International Journal of Control*, **2018**, 91, 608-621	1.5	4
43	. *IEEE Transactions on Automatic Control*, **2019**, 64, 1535-1549	5.9	4
42	On charge point anxiety and the sharing economy **2017**,		4
41	Localization of missing entities using parked cars **2015**,		4
40	Preservation of common quadratic Lyapunov functions and Padé approximations **2010**,		4
39	I-nteract: 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	3.5	4

38	r-extreme signalling for congestion control. *International Journal of Control*, **2016**, 89, 1972-1984	1.5	4
37	Spatial Positioning Token (SPToken) for Smart Mobility **2019**,		4
36	On the design of cyber-physical control system for a smart pedelec (Ebike) **2019**,		4
35	Nonhomogeneous Place-dependent Markov Chains, Unsynchronised AIMD, and Optimisation. *Journal of the ACM*, **2019**, 66, 1-37	2	3
34	Kemeny-based testing for COVID-19. *PLoS ONE*, **2020**, 15, e0242401	3.7	3
33	Distributed Ledger Enabled Control of Tyre Induced Particulate Matter in Smart Cities. *Frontiers in Sustainable Cities*, **2020**, 2,	2.2	3
32	Context-Based Cyclist Intelligent Support: An Approach to e-Bike Control Based on Smartphone Sensors. *Lecture Notes in Computer Science*, **2018**, 16-22	0.9	3
31	Access Control for Distributed Ledgers in the Internet of Things: A Networking Approach. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	3
30	On the ergodic control of ensembles. *Automatica*, **2019**, 108, 108483	5.7	2
29	An extension of the KYP-lemma for the design of state-dependent switching systems with uncertainty. *Systems and Control Letters*, **2013**, 62, 626-631	2.4	2
28	A new stability result for switched linear systems **2013**,		2
27	Using stationary vehicles to enhance cooperative positioning in Vehicular Ad-hoc Networks **2014**,		2
26	Robustness of Constant-Delay Predictor Feedback with Respect to Distinct Uncertain Time-Varying Input Delays. *IFAC-PapersOnLine*, **2020**, 53, 7677-7682	0.7	2
25	Low Tyre Particle Control **2020**,		2
24	SPR based design conditions for quadratic stability of multi-mode switched linear systems. *Automatica*, **2020**, 122, 109254	5.7	2
23	Active Limitation of Tire Wear and Emissions for Electrified Vehicles		2
22	Communication-efficient Distributed Multi-resource Allocation **2018**,		2
21	On the Design of an Intelligent Speed Advisory System for Cyclists **2018**,		2

20	In-domain stabilization of block diagonal infinite-dimensional systems with time-varying input delays. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
19	H2 and H∞ analysis and state feedback control design for discrete-time constrained switched linear systems. *International Journal of Control*, **2020**, 1-12	1.5	1
18	A Vehicle-in-the-Loop Emulation Platform for Demonstrating Intelligent Transportation Systems. *Lecture Notes in Control and Information Sciences*, **2019**, 133-154	0.5	1
17	Spatial Positioning Token (SPToken) for Smart Mobility. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-14	6.1	1
16	Secure Access Control for DAG-based Distributed Ledgers. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	1
15	. *IEEE Internet of Things Journal*, **2021**, 8, 11112-11122	10.7	1
14	Ad-hocChain: Cooperative Sharing and Trading Infrastructure for Electric Vehicle Charging Networks **2019**,		1
13	Predictability and Fairness in Social Sensing. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	1
12	Regulating the Searching Behaviour of Parked Vehicles Attempting to Locate Moving, Missing Entities **2018**,		1
11	dockChain: A Solution for Electric Vehicles Charge Point Anxiety **2018**,		1
10	Markovian city-scale modelling and mitigation of micro-particles from tires. *PLoS ONE*, **2021**, 16, e0260236	3.7	0
9	Integral action for setpoint regulation control of a reaction–diffusion equation in the presence of a state delay. *Automatica*, **2021**, 134, 109935	5.7	0
8	A Note on Order and Index Reduction for Descriptor Systems. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	
7	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	5.9	
6	Hysteresis-based supervisory control with application to non-pharmaceutical containment of COVID-19. *Annual Reviews in Control*, **2021**, 52, 508-522	10.3	
5	A Numerical Study on Constant Spacing Policies for Starting Platoons at Oversaturated Intersections. *IEEE Access*, **2022**, 1-1	3.5	
4	Kemeny-based testing for COVID-19 **2020**, 15, e0242401		
3	Kemeny-based testing for COVID-19 **2020**, 15, e0242401		

LIST OF PUBLICATIONS

2   Kemeny-based testing for COVID-19 **2020**, 15, e0242401

1   Kemeny-based testing for COVID-19 **2020**, 15, e0242401

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