

Oliver Mason

List of Publications by Year in descending order

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66
papers

3,469
citations

257450

24
h-index

161849

54
g-index

68
all docs

68
docs citations

68
times ranked

2020
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability Criteria for Switched and Hybrid Systems. <i>SIAM Review</i> , 2007, 49, 545-592.	9.5	845
2	On Linear Copositive Lyapunov Functions and the Stability of Switched Positive Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 1346-1349.	5.7	345
3	Graph theory and networks in Biology. <i>IET Systems Biology</i> , 2007, 1, 89-119.	1.5	322
4	On the Stability of Switched Positive Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 1099-1103.	5.7	299
5	On linear co-positive Lyapunov functions for sets of linear positive systems. <i>Automatica</i> , 2009, 45, 1943-1947.	5.0	196
6	A result on common quadratic Lyapunov functions. <i>IEEE Transactions on Automatic Control</i> , 2003, 48, 110-113.	5.7	158
7	Leader tracking in homogeneous vehicle platoons with broadcast delays. <i>Automatica</i> , 2014, 50, 64-74.	5.0	132
8	Issues in the design of switched linear control systems: A benchmark study. <i>International Journal of Adaptive Control and Signal Processing</i> , 2003, 17, 103-118.	4.1	80
9	Global Phase-Locking in Finite Populations of Phase-Coupled Oscillators. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 134-160.	1.6	78
10	D-Stability and Delay-Independent Stability of Homogeneous Cooperative Systems. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 2882-2885.	5.7	68
11	An alternative proof of the Barker, Berman, Plemmons (BBP) result on diagonal stability and extensions. <i>Linear Algebra and Its Applications</i> , 2009, 430, 34-40.	0.9	64
12	Observations on the stability properties of cooperative systems. <i>Systems and Control Letters</i> , 2009, 58, 461-467.	2.3	62
13	On the simultaneous diagonal stability of a pair of positive linear systems. <i>Linear Algebra and Its Applications</i> , 2006, 413, 13-23.	0.9	61
14	On Computing the Critical Coupling Coefficient for the Kuramoto Model on a Complete Bipartite Graph. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 417-453.	1.6	57
15	A unifying framework for the SISO circle criterion and other quadratic stability criteria. <i>International Journal of Control</i> , 2004, 77, 1-8.	1.9	51
16	On common quadratic Lyapunov functions for stable discrete-time LTI systems. <i>IMA Journal of Applied Mathematics</i> , 2004, 69, 271-283.	1.6	46
17	Stability criteria for SIS epidemiological models under switching policies. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014, 19, 2865-2887.	0.9	45
18	Optimal Differentially Private Mechanisms for Randomised Response. <i>IEEE Transactions on Information Forensics and Security</i> , 2017, 12, 2726-2735.	6.9	43

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19	The rôle of control and system theory in systems biology. Annual Reviews in Control, 2008, 32, 33-47.	7.9	36
20	Diagonal Riccati stability and positive time-delay systems. Systems and Control Letters, 2012, 61, 6-10.	2.3	32
21	Quadratic and Copositive Lyapunov Functions and the Stability of Positive Switched Linear Systems. Proceedings of the American Control Conference, 2007, , .	0.0	29
22	On Delay-Independent Stability of a Class of Nonlinear Positive Time-Delay Systems. IEEE Transactions on Automatic Control, 2014, 59, 1974-1977.	5.7	27
23	Some results on the stability of positive switched linear systems. , 2004, , .		26
24	Stability and positivity of equilibria for subhomogeneous cooperative systems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6416-6426.	1.1	26
25	Absolute stability and Lyapunov-Krasovskii functionals for switched nonlinear systems with time-delay. Journal of the Franklin Institute, 2014, 351, 4381-4394.	3.4	25
26	Nash Equilibria for competitive information diffusion on trees. Information Processing Letters, 2013, 113, 217-219.	0.6	24
27	A conjecture on the existence of common quadratic Lyapunov functions for positive linear systems. , 0, , .		23
28	Information diffusion on the iterated local transitivity model of online social networks. Discrete Applied Mathematics, 2013, 161, 1338-1344.	0.9	23
29	Diagonal Lyapunov-Krasovskii functionals for discrete-time positive systems with delay. Systems and Control Letters, 2014, 63, 63-67.	2.3	22
30	A Convergence Result for the Kuramoto Model with All-to-All Coupling. SIAM Journal on Applied Dynamical Systems, 2011, 10, 906-920.	1.6	20
31	Differential privacy in metric spaces: Numerical, categorical and functional data under the one roof. Information Sciences, 2015, 305, 256-268.	6.9	18
32	The analytic hierarchy process, max algebra and multi-objective optimisation. Linear Algebra and Its Applications, 2013, 438, 2911-2928.	0.9	16
33	Diagonal Riccati stability and applications. Linear Algebra and Its Applications, 2016, 492, 38-51.	0.9	16
34	Diagonal stability of a class of discrete-time positive switched systems with delay. IET Control Theory and Applications, 2018, 12, 812-818.	2.1	16
35	Cyclic interconnection for formation control of 1-D vehicle strings. European Journal of Control, 2016, 27, 36-44.	2.6	15
36	Control of Yaw Rate and Sideslip in 4-Wheel Steering Cars with Actuator Constraints. Lecture Notes in Computer Science, 2005, , 201-222.	1.3	13

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37	Quadratic Lyapunov functions for systems with state-dependent switching. <i>Linear Algebra and Its Applications</i> , 2010, 433, 52-63.	0.9	13
38	Stability and D-stability for Switched Positive Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 101-109.	1.0	10
39	Extremal norms for positive linear inclusions. <i>Linear Algebra and Its Applications</i> , 2014, 444, 100-113.	0.9	9
40	Conditions for the Existence of Fixed Points in a Finite System of Kuramoto Oscillators. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	7
41	On the Kalmanâ€“Yacubovichâ€“Popov lemma and common Lyapunov solutions for matrices with regular inertia. <i>Linear Algebra and Its Applications</i> , 2007, 420, 183-197.	0.9	7
42	Extreme points of the local differential privacy polytope. <i>Linear Algebra and Its Applications</i> , 2017, 534, 78-96.	0.9	7
43	Applications of Linear Co-positive Lyapunov Functions for Switched Linear Positive Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 331-338.	1.0	7
44	Some results on quadratic stability of switched systems with interval uncertainty. <i>International Journal of Control</i> , 2007, 80, 825-831.	1.9	6
45	Spectral properties of matrix polynomials in the max algebra. <i>Linear Algebra and Its Applications</i> , 2011, 435, 1626-1636.	0.9	6
46	Correction to â€œD-Stability and Delay-Independent Stability of Homogeneous Cooperative Systemsâ€œ. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 1489-1489.	5.7	5
47	Pmax1 and S properties and asymptotic stability in the max algebra. <i>Linear Algebra and Its Applications</i> , 2011, 435, 1008-1018.	0.9	5
48	Barabanov norms, Lipschitz continuity and monotonicity for the max algebraic joint spectral radius. <i>Linear Algebra and Its Applications</i> , 2018, 550, 37-58.	0.9	5
49	Leader following with non-homogeneous weights for control of vehicle formations. , 2016, , .		4
50	On Diagonal Stability of Positive Systems with Switches and Delays. <i>Automation and Remote Control</i> , 2018, 79, 2114-2127.	0.8	4
51	Convex Cones, Lyapunov Functions, and the Stability of Switched Linear Systems. <i>Lecture Notes in Computer Science</i> , 2005, , 31-46.	1.3	4
52	Differentially private response mechanisms on categorical data. <i>Discrete Applied Mathematics</i> , 2016, 211, 86-98.	0.9	2
53	Diagonal Riccati stability and the Hadamard product. <i>Linear Algebra and Its Applications</i> , 2017, 534, 158-173.	0.9	2
54	Differential Privacy and the l_1 Sensitivity of Positive Linear Observers * *This work was supported with the financial support of the Science Foundation Ireland grant 13/RC/2094 and co-funded under the European Regional Development Fund through the Southern & Eastern Regional Operational Programme to Lero - the Irish Software Research Centre (www.lero.ie). <i>IFAC-PapersOnLine</i> , 2017, 50, 3111-3116.	0.9	2

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55	Inference of Protein Function from the Structure of Interaction Networks. , 2011, , 439-461.		2
56	Non-linear control of four-wheel steering cars with actuator constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 937-942.	0.4	1
57	On the Kamkeâ€“MÃ¼ller conditions, monotonicity and continuity for bi-modal piecewise-smooth systems. Systems and Control Letters, 2012, 61, 180-186.	2.3	1
58	The Markov Chain Tree Theorem in commutative semirings and the State Reduction Algorithm in commutative semifields. Linear Algebra and Its Applications, 2015, 468, 184-196.	0.9	1
59	A WIND TURBINE BENCHMARK FOR HYBRID SYSTEM ANALYSIS & DESIGN. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 121-126.	0.4	0
60	On the Quadratic Stability of Switched Interval Systems: Preliminary Results. , 0, , .		0
61	Switching Stability of Automotive Roll Dynamics Subject to Interval Uncertainty. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10921-10922.	0.2	0
62	A geometrical treatment for obtaining necessary and sufficient conditions for joint quadratic Lyapunov function existence for state-dependent, switched systems: A two-dimensional case. , 2009, , .		0
63	Cyclic interconnection in 1-D vehicle formation control. , 2014, , .		0
64	Persistence, Periodicity and Privacy for Positive Systems in Epidemiology and Elsewhere. Lecture Notes in Control and Information Sciences, 2017, , 3-15.	1.0	0
65	Bounding the $\ \cdot \ _2$ sensitivity for positive linear observers. , 2018, , .		0
66	Discussion on: Multi-layer Switching Control using Generalized Sampled-data Hold Functions. European Journal of Control, 2006, 12, 500-504.	2.6	0