Oliver Mason

List of Publications by Year
in descending order

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	Barabanov norms, Lipschitz continuity and monotonicity for the max algebraic joint spectral radius. Linear Algebra and Its Applications, 2018, 550, 37-58.	0.9	5
2	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
3	On Diagonal Stability of Positive Systems with Switches and Delays. Automation and Remote Control, 2018, 79, 2114-2127.	0.8	4
4	Bounding the l<inf>2</inf> sensitivity for positive linear observers. , 2018, , .		0
5	Persistence, Periodicity and Privacy for Positive Systems in Epidemiology and Elsewhere. Lecture Notes in Control and Information Sciences, 2017, , 3-15.	1.0	0
6	Extreme points of the local differential privacy polytope. Linear Algebra and Its Applications, 2017, 534, 78-96.	0.9	7
7	Diagonal Riccati stability and the Hadamard product. Linear Algebra and Its Applications, 2017, 534, 158-173.	0.9	2
8	Optimal Differentially Private Mechanisms for Randomised Response. IEEE Transactions on Information Forensics and Security, 2017, 12, 2726-2735.	6.9	43
9	Differential Privacy and the l1 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). IFAC-PapersOnLine, 2017, 50, 3111-3116.	0.9	2
10	Leader following with non-homogeneous weights for control of vehicle formations. , 2016, , .		4
11	Diagonal Riccati stability and applications. Linear Algebra and Its Applications, 2016, 492, 38-51.	0.9	16
12	Differentially private response mechanisms on categorical data. Discrete Applied Mathematics, 2016, 211, 86-98.	0.9	2
13	Cyclic interconnection for formation control of 1-D vehicle strings. European Journal of Control, 2016, 27, 36-44.	2.6	15
14	Differential privacy in metric spaces: Numerical, categorical and functional data under the one roof. Information Sciences, 2015, 305, 256-268.	6.9	18
15	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
16	Cyclic interconnection in 1-D vehicle formation control. , 2014, , .		0
17	Diagonal Lyapunov–Krasovskii functionals for discrete-time positive systems with delay. Systems and Control Letters, 2014, 63, 63-67.	2.3	22
18	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

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19	Leader tracking in homogeneous vehicle platoons with broadcast delays. Automatica, 2014, 50, 64-74.	5.0	132
20	Extremal norms for positive linear inclusions. Linear Algebra and Its Applications, 2014, 444, 100-113.	0.9	9
21	Absolute stability and Lyapunovâ€"Krasovskii functionals for switched nonlinear systems with time-delay. Journal of the Franklin Institute, 2014, 351, 4381-4394.	3.4	25
22	Stability criteria for SIS epidemiological models under switching policies. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 2865-2887.	0.9	45
23	The analytic hierarchy process, max algebra and multi-objective optimisation. Linear Algebra and Its Applications, 2013, 438, 2911-2928.	0.9	16
24	Information diffusion on the iterated local transitivity model of online social networks. Discrete Applied Mathematics, 2013, 161, 1338-1344.	0.9	23
25	Nash Equilibria for competitive information diffusion on trees. Information Processing Letters, 2013, 113, 217-219.	0.6	24
26	Diagonal Riccati stability and positive time-delay systems. Systems and Control Letters, 2012, 61, 6-10.	2.3	32
27	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
28	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
29	Correction to â€œD-Stability and Delay-Independent Stability of Homogeneous Cooperative Systemsâ€. IEEE Transactions on Automatic Control, 2011, 56, 1489-1489.	5.7	5
30	Stability and positivity of equilibria for subhomogeneous cooperative systems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6416-6426.	1.1	26
31	Spectral properties of matrix polynomials in the max algebra. Linear Algebra and Its Applications, 2011, 435, 1626-1636.	0.9	6
32	Pmax1 and S properties and asymptotic stability in the max algebra. Linear Algebra and Its Applications, 2011, 435, 1008-1018.	0.9	5
33	Inference of Protein Function from the Structure of Interaction Networks. , 2011, , 439-461.		2
34	Quadratic Lyapunov functions for systems with state-dependent switching. Linear Algebra and Its Applications, 2010, 433, 52-63.	0.9	13
35	D-Stability and Delay-Independent Stability of Homogeneous Cooperative Systems. IEEE Transactions on Automatic Control, 2010, 55, 2882-2885.	5.7	68
36	On Computing the Critical Coupling Coefficient for the Kuramoto Model on a Complete Bipartite Graph. SIAM Journal on Applied Dynamical Systems, 2009, 8, 417-453.	1.6	57

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37	Observations on the stability properties of cooperative systems. Systems and Control Letters, 2009, 58, 461-467.	2.3	62
38	An alternative proof of the Barker, Berman, Plemmons (BBP) result on diagonal stability and extensions. Linear Algebra and Its Applications, 2009, 430, 34-40.	0.9	64
39	On linear co-positive Lyapunov functions for sets of linear positive systems. Automatica, 2009, 45, 1943-1947.	5.0	196
40	Stability and D-stability for Switched Positive Systems. Lecture Notes in Control and Information Sciences, 2009, , 101-109.	1.0	10
41	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
42	Applications of Linear Co-positive Lyapunov Functions for Switched Linear Positive Systems. Lecture Notes in Control and Information Sciences, 2009, , 331-338.	1.0	7
43	Switching Stability of Automotive Roll Dynamics Subject to Interval Uncertainty. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10921-10922.	0.2	0
44	The rÃ1e of control and system theory in systems biology. Annual Reviews in Control, 2008, 32, 33-47.	7.9	36
45	Global Phase-Locking in Finite Populations of Phase-Coupled Oscillators. SIAM Journal on Applied Dynamical Systems, 2008, 7, 134-160.	1.6	78
46	Some results on quadratic stability of switched systems with interval uncertainty. International Journal of Control, 2007, 80, 825-831.	1.9	6
47	Quadratic and Copositive Lyapunov Functions and the Stability of Positive Switched Linear Systems. Proceedings of the American Control Conference, 2007, , .	0.0	29
48	Conditions for the Existence of Fixed Points in a Finite System of Kuramoto Oscillators. Proceedings of the American Control Conference, 2007, , .	0.0	7
49	Graph theory and networks in Biology. IET Systems Biology, 2007, 1, 89-119.	1.5	322
50	On the Stability of Switched Positive Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 1099-1103.	5.7	299
51	On Linear Copositive Lyapunov Functions and the Stability of Switched Positive Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 1346-1349.	5.7	345
52	Stability Criteria for Switched and Hybrid Systems. SIAM Review, 2007, 49, 545-592.	9.5	845
53	On the Kalmanâ€"Yacubovichâ€"Popov lemma and common Lyapunov solutions for matrices with regular inertia. Linear Algebra and Its Applications, 2007, 420, 183-197.	0.9	7
54	On the simultaneous diagonal stability of a pair of positive linear systems. Linear Algebra and Its Applications, 2006, 413, 13-23.	0.9	61

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55	Discussion on: Multi-layer Switching Control using Generalized Sampled-data Hold Functions. European Journal of Control, 2006, 12, 500-504.	2.6	0
56	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
57	Convex Cones, Lyapunov Functions, and the Stability of Switched Linear Systems. Lecture Notes in Computer Science, 2005, , 31-46.	1.3	4
58	On common quadratic Lyapunov functions for stable discrete-time LTI systems. IMA Journal of Applied Mathematics, 2004, 69, 271-283.	1.6	46
59	A unifying framework for the SISO circle criterion and other quadratic stability criteria. International Journal of Control, 2004, 77, 1-8.	1.9	51
60	Some results on the stability of positive switched linear systems. , 2004, , .		26
61	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
62	Issues in the design of switched linear control systems: A benchmark study. International Journal of Adaptive Control and Signal Processing, 2003, 17, 103-118.	4.1	80
63	A result on common quadratic Lyapunov functions. IEEE Transactions on Automatic Control, 2003, 48, 110-113.	5.7	158
64	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
65	A conjecture on the existence of common quadratic Lyapunov functions for positive linear systems. , 0, , .		23
66	On the Quadratic Stability of Switched Interval Systems: Preliminary Results. , 0, , .		0