

Paolo Rapisarda

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.

65

papers

911

citations

15

h-index

28

g-index

77

ext. papers

1,198

ext. citations

2.3

avg, IF

4.45

L-index

#	Paper	IF	Citations
65	A note on persistency of excitation. <i>Systems and Control Letters</i> , 2005 , 54, 325-329	2.4	164
64	State Maps for Linear Systems. <i>SIAM Journal on Control and Optimization</i> , 1997 , 35, 1053-1091	1.9	107
63	Data-driven simulation and control. <i>International Journal of Control</i> , 2008 , 81, 1946-1959	1.5	99
62	Critical analysis of partial discharge dynamics in air filled spherical voids. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 125601	3	35
61	Modeling Approaches for DCDC Converters With Switched Capacitors. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 953-959	8.9	34
60	Data-driven control: A behavioral approach. <i>Systems and Control Letters</i> , 2017 , 101, 37-43	2.4	31
59	New Algorithms for Polynomial J-Spectral Factorization. <i>Mathematics of Control, Signals, and Systems</i> , 1999 , 12, 24-61	1.3	30
58	Time-relevant stability of 2D systems. <i>Automatica</i> , 2011 , 47, 2373-2382	5.7	25
57	State Maps from Integration by Parts. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 2415-2439	1.9	24
56	Identification and data-driven model reduction of state-space representations of lossless and dissipative systems from noise-free data. <i>Automatica</i> , 2011 , 47, 1721-1728	5.7	24
55	A two-variable approach to solve the polynomial Lyapunov equation. <i>Systems and Control Letters</i> , 2001 , 42, 117-126	2.4	22
54	The subspace Nevanlinna interpolation problem and the most powerful unfalsified model. <i>Systems and Control Letters</i> , 1997 , 32, 291-300	2.4	20
53	On the state of behaviors. <i>Linear Algebra and Its Applications</i> , 2007 , 424, 570-614	0.9	20
52	Pick Matrix Conditions for Sign-Definite Solutions of the Algebraic Riccati Equation. <i>SIAM Journal on Control and Optimization</i> , 2001 , 40, 969-991	1.9	18
51	On the stability of switched behavioral systems 2011 ,		16
50	On Lyapunov functions and data-driven dissipativity. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7783-7788	0.7	14
49	Lyapunov stability analysis of higher-order 2-D systems. <i>Multidimensional Systems and Signal Processing</i> , 2011 , 22, 287-302	1.8	14

48	Canonical forms for polynomial and quadratic differential operators. <i>Systems and Control Letters</i> , 2007 , 56, 678-684	2.4	14
47	Lyapunov stability of 2D finite-dimensional behaviours. <i>International Journal of Control</i> , 2011 , 84, 737-745	5	13
46	On the linear quadratic data-driven control 2007 ,		13
45	A categorical approach to open and interconnected dynamical systems 2016 ,		13
44	Dissipativity preserving model reduction by retention of trajectories of minimal dissipation. <i>Mathematics of Control, Signals, and Systems</i> , 2009 , 21, 171-201	1.3	11
43	Recursive exact H _∞ identification from impulse-response measurements. <i>Systems and Control Letters</i> , 2003 , 49, 323-334	2.4	11
42	Failure identification for 3D linear systems. <i>Multidimensional Systems and Signal Processing</i> , 2015 , 26, 481-502	1.8	9
41	Dissipative Switched Linear Differential Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3813-3825	3.9	9
40	A characterization of solutions of the discrete-time algebraic Riccati equation based on quadratic difference forms. <i>Linear Algebra and Its Applications</i> , 2006 , 416, 1060-1082	0.9	9
39	Conserved- and zero-mean quadratic quantities in oscillatory systems. <i>Mathematics of Control, Signals, and Systems</i> , 2005 , 17, 173-200	1.3	9
38	Identification and data-driven reduced-order modeling for linear conservative port- and self-adjoint Hamiltonian systems 2013 ,		8
37	On the Takagi interpolation problem. <i>Linear Algebra and Its Applications</i> , 2007 , 425, 453-470	0.9	8
36	Canonical realizations by factorization of constant matrices. <i>Systems and Control Letters</i> , 2012 , 61, 827-834	1.4	6
35	Realization of Lossless Systems Via Constant Matrix Factorizations. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2632-2636	5.9	6
34	A duality perspective on Loewner rational interpolation and state-space modelling of vector-exponential trajectories 2015 ,		6
33	Lyapunov functions for time-relevant systems, with application to first-orthant stable systems. <i>Automatica</i> , 2012 , 48, 1998-2006	5.7	6
32	Failure identification for linear repetitive processes. <i>Multidimensional Systems and Signal Processing</i> , 2015 , 26, 1037-1059	1.8	5
31	State-Space Modeling of Two-Dimensional Vector-Exponential Trajectories. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 2734-2753	1.9	5

30	Physical models for field based partial discharge measurements 2015 ,		4
29	Higher-order linear lossless systems. <i>International Journal of Control</i> , 2008 , 81, 1519-1536	1.5	4
28	A note on persistency of excitation 2004 ,		4
27	Balanced State Representations with Polynomial Algebra 2003 , 345-357		4
26	Stabilization, Lyapunov functions, and dissipation. <i>Systems and Control Letters</i> , 2010 , 59, 806-811	2.4	3
25	Partial Discharges Identification and Localisation within Transformer Windings. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 2095-2103	2.3	3
24	Bilinear Differential Forms and the Loewner Framework for Rational Interpolation. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 23-43	0.5	3
23	On the Identification of Self-Adjoint Linear Time-Varying State Models. <i>IFAC-PapersOnLine</i> , 2018 , 51, 251-256	0.7	3
22	Investigating the dependence of partial discharge activity on applied field structure 2016 ,		2
21	Algorithms for polynomial spectral factorization and bounded-real balanced state space representations. <i>Mathematics of Control, Signals, and Systems</i> , 2013 , 25, 231-255	1.3	2
20	On the switching control of the DCDC zeta converter operating in continuous conduction mode. <i>IET Control Theory and Applications</i> , 2021 , 15, 1185-1198	2.5	2
19	Discrete Roesser state models from 2D frequency data. <i>Multidimensional Systems and Signal Processing</i> , 2019 , 30, 591-610	1.8	2
18	Improving models of partial discharge activity using simulation 2017 ,		1
17	A Gröbner Basis Approach to Solve a Rank Minimization Problem Arising in 2D-identification. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1834-1839	0.7	1
16	Consensus for linear agents with unknown parameters. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2505-2510	0.7	1
15	New frequency domain based stability tests for 2D linear systems 2012 ,		1
14	A behavioral approach to passivity and bounded realness preserving balanced truncation with error bounds 2009 ,		1
13	Time-relevant 2D behaviors 2011 ,		1

- 12 A counterexample to \mathbb{C} generalized eigenvalue-based stability tests for 2-D linear systems: Necessary and sufficient conditions by Fu, P., Chen, J., and S.I. Niculescu. *Automatica*, **2010**, 46, 234-235 5.7 1
- 11 Balanced state representations from higher order differential equations 1
- 10 Vector-exponential time-series modeling for polynomial J-spectral factorization 1
- 9 A behavioral view of Nevanlinna-Pick interpolation 1
- 8 A bilinear differential forms approach to parametric structured state-space modelling. *Systems and Control Letters*, **2016**, 92, 14-19 2.4 1
- 7 From Dirac structure to state model: identification of linear time-varying port-Hamiltonian systems **2019**, 1
- 6 Data-Driven Dissipativity Analysis: Application of the Matrix S-Lemma. *IEEE Control Systems*, **2022**, 42, 140-149 2.9 0
- 5 Reprint of \mathbb{A} bilinear differential forms approach to parametric structured state-space modelling \square *Systems and Control Letters*, **2016**, 95, 77-82 2.4
- 4 A new algorithm for polynomial J -spectral factorization. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1999**, 32, 1744-1748
- 3 State for Linear Time-Varying Systems, with Applications to Dissipative Systems. *SIAM Journal on Control and Optimization*, **2022**, 60, 147-167 1.9
- 2 Rational orthonormal bases, state transformations, and dissipativity. *IEEE Transactions on Automatic Control*, **2021**, 1-1 5.9
- 1 A Loewner Matrix Approach to the Identification of Linear Time-Varying Systems **2022**, 79-94