

# Paolo Rapisarda

## List of Publications by Year in Descending Order

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**Version:** 2024-04-24

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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	State for Linear Time-Varying Systems, with Applications to Dissipative Systems. <i>SIAM Journal on Control and Optimization</i> , <b>2022</b> , 60, 147-167	1.9	
64	Data-Driven Dissipativity Analysis: Application of the Matrix S-Lemma. <i>IEEE Control Systems</i> , <b>2022</b> , 42, 140-149	2.9	0
63	A Loewner Matrix Approach to the Identification of Linear Time-Varying Systems <b>2022</b> , 79-94		
62	On the switching control of the DCDC zeta converter operating in continuous conduction mode. <i>IET Control Theory and Applications</i> , <b>2021</b> , 15, 1185-1198	2.5	2
61	Rational orthonormal bases, state transformations, and dissipativity. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	
60	Partial Discharges Identification and Localisation within Transformer Windings. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 2095-2103	2.3	3
59	From Dirac structure to state model: identification of linear time-varying port-Hamiltonian systems <b>2019</b> ,		1
58	Discrete Roeser state models from 2D frequency data. <i>Multidimensional Systems and Signal Processing</i> , <b>2019</b> , 30, 591-610	1.8	2
57	Critical analysis of partial discharge dynamics in air filled spherical voids. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 125601	3	35
56	On the Identification of Self-Adjoint Linear Time-Varying State Models. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 251-256	0.7	3
55	Data-driven control: A behavioral approach. <i>Systems and Control Letters</i> , <b>2017</b> , 101, 37-43	2.4	31
54	Improving models of partial discharge activity using simulation <b>2017</b> ,		1
53	On Lyapunov functions and data-driven dissipativity. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 7783-7788	0.7	14
52	A Gröbner Basis Approach to Solve a Rank Minimization Problem Arising in 2D-identification. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 1834-1839	0.7	1
51	Consensus for linear agents with unknown parameters. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2505-2510	0.7	1
50	Investigating the dependence of partial discharge activity on applied field structure <b>2016</b> ,		2
49	State-Space Modeling of Two-Dimensional Vector-Exponential Trajectories. <i>SIAM Journal on Control and Optimization</i> , <b>2016</b> , 54, 2734-2753	1.9	5

48	Reprint of A bilinear differential forms approach to parametric structured state-space modelling <i>Systems and Control Letters</i> , <b>2016</b> , 95, 77-82	2.4	
47	Dissipative Switched Linear Differential Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 3813-3825	3.9	9
46	A categorical approach to open and interconnected dynamical systems <b>2016</b> ,		13
45	A bilinear differential forms approach to parametric structured state-space modelling. <i>Systems and Control Letters</i> , <b>2016</b> , 92, 14-19	2.4	1
44	Failure identification for linear repetitive processes. <i>Multidimensional Systems and Signal Processing</i> , <b>2015</b> , 26, 1037-1059	1.8	5
43	Modeling Approaches for DCDC Converters With Switched Capacitors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 953-959	8.9	34
42	Failure identification for 3D linear systems. <i>Multidimensional Systems and Signal Processing</i> , <b>2015</b> , 26, 481-502	1.8	9
41	A duality perspective on Loewner rational interpolation and state-space modelling of vector-exponential trajectories <b>2015</b> ,		6
40	Physical models for field based partial discharge measurements <b>2015</b> ,		4
39	Bilinear Differential Forms and the Loewner Framework for Rational Interpolation. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 23-43	0.5	3
38	Algorithms for polynomial spectral factorization and bounded-real balanced state space representations. <i>Mathematics of Control, Signals, and Systems</i> , <b>2013</b> , 25, 231-255	1.3	2
37	Realization of Lossless Systems Via Constant Matrix Factorizations. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 2632-2636	5.9	6
36	Identification and data-driven reduced-order modeling for linear conservative port- and self-adjoint Hamiltonian systems <b>2013</b> ,		8
35	Canonical realizations by factorization of constant matrices. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 827-833	3.4	6
34	Lyapunov functions for time-relevant systems, with application to first-orthant stable systems. <i>Automatica</i> , <b>2012</b> , 48, 1998-2006	5.7	6
33	New frequency domain based stability tests for 2D linear systems <b>2012</b> ,		1
32	State Maps from Integration by Parts. <i>SIAM Journal on Control and Optimization</i> , <b>2011</b> , 49, 2415-2439	1.9	24
31	Identification and data-driven model reduction of state-space representations of lossless and dissipative systems from noise-free data. <i>Automatica</i> , <b>2011</b> , 47, 1721-1728	5.7	24

30	Time-relevant stability of 2D systems. <i>Automatica</i> , <b>2011</b> , 47, 2373-2382	5.7	25
29	Lyapunov stability analysis of higher-order 2-D systems. <i>Multidimensional Systems and Signal Processing</i> , <b>2011</b> , 22, 287-302	1.8	14
28	Lyapunov stability of 2D finite-dimensional behaviours. <i>International Journal of Control</i> , <b>2011</b> , 84, 737-745	5	13
27	Time-relevant 2D behaviors <b>2011</b> ,		1
26	On the stability of switched behavioral systems <b>2011</b> ,		16
25	Stabilization, Lyapunov functions, and dissipation. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 806-811	2.4	3
24	A counterexample to generalized eigenvalue-based stability tests for 2-D linear systems: Necessary and sufficient conditions by Fu, P., Chen, J., and S.I. Niculescu. <i>Automatica</i> , <b>2010</b> , 46, 234-235	5.7	1
23	A behavioral approach to passivity and bounded realness preserving balanced truncation with error bounds <b>2009</b> ,		1
22	Dissipativity preserving model reduction by retention of trajectories of minimal dissipation. <i>Mathematics of Control, Signals, and Systems</i> , <b>2009</b> , 21, 171-201	1.3	11
21	Data-driven simulation and control. <i>International Journal of Control</i> , <b>2008</b> , 81, 1946-1959	1.5	99
20	Higher-order linear lossless systems. <i>International Journal of Control</i> , <b>2008</b> , 81, 1519-1536	1.5	4
19	On the linear quadratic data-driven control <b>2007</b> ,		13
18	Canonical forms for polynomial and quadratic differential operators. <i>Systems and Control Letters</i> , <b>2007</b> , 56, 678-684	2.4	14
17	On the Takagi interpolation problem. <i>Linear Algebra and Its Applications</i> , <b>2007</b> , 425, 453-470	0.9	8
16	On the state of behaviors. <i>Linear Algebra and Its Applications</i> , <b>2007</b> , 424, 570-614	0.9	20
15	A characterization of solutions of the discrete-time algebraic Riccati equation based on quadratic difference forms. <i>Linear Algebra and Its Applications</i> , <b>2006</b> , 416, 1060-1082	0.9	9
14	A note on persistency of excitation. <i>Systems and Control Letters</i> , <b>2005</b> , 54, 325-329	2.4	164
13	Conserved- and zero-mean quadratic quantities in oscillatory systems. <i>Mathematics of Control, Signals, and Systems</i> , <b>2005</b> , 17, 173-200	1.3	9

12	A note on persistency of excitation <b>2004</b> ,		4
11	Recursive exact H <sub>∞</sub> identification from impulse-response measurements. <i>Systems and Control Letters</i> , <b>2003</b> , 49, 323-334	2.4	11
10	Balanced State Representations with Polynomial Algebra <b>2003</b> , 345-357		4
9	A two-variable approach to solve the polynomial Lyapunov equation. <i>Systems and Control Letters</i> , <b>2001</b> , 42, 117-126	2.4	22
8	Pick Matrix Conditions for Sign-Definite Solutions of the Algebraic Riccati Equation. <i>SIAM Journal on Control and Optimization</i> , <b>2001</b> , 40, 969-991	1.9	18
7	New Algorithms for Polynomial J-Spectral Factorization. <i>Mathematics of Control, Signals, and Systems</i> , <b>1999</b> , 12, 24-61	1.3	30
6	A new algorithm for polynomial J-spectral factorization. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1999</b> , 32, 1744-1748		
5	State Maps for Linear Systems. <i>SIAM Journal on Control and Optimization</i> , <b>1997</b> , 35, 1053-1091	1.9	107
4	The subspace Nevanlinna interpolation problem and the most powerful unfalsified model. <i>Systems and Control Letters</i> , <b>1997</b> , 32, 291-300	2.4	20
3	Balanced state representations from higher order differential equations		1
2	Vector-exponential time-series modeling for polynomial J-spectral factorization		1
1	A behavioral view of Nevanlinna-Pick interpolation		1