

# Mauro Di Marco

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2401096/publications.pdf>

Version: 2024-02-01

68  
papers

933  
citations

430442

18  
h-index

476904

29  
g-index

69  
all docs

69  
docs citations

69  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective circular motion of multi-vehicle systems. Automatica, 2008, 44, 3025-3035.	3.0	152
2	Convergence and Multistability of Nonsymmetric Cellular Neural Networks With Memristors. IEEE Transactions on Cybernetics, 2017, 47, 2970-2983.	6.2	66
3	New Conditions for Global Asymptotic Stability of Memristor Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1822-1834.	7.2	52
4	Limit Set Dichotomy and Multistability for a Class of Cooperative Neural Networks With Delays. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1473-1485.	7.2	50
5	Memristor standard cellular neural networks computing in the flux-charge domain. Neural Networks, 2017, 93, 152-164.	3.3	44
6	Discontinuous Neural Networks for Finite-Time Solution of Time-Dependent Linear Equations. IEEE Transactions on Cybernetics, 2016, 46, 2509-2520.	6.2	39
7	Limit Set Dichotomy and Convergence of Cooperative Piecewise Linear Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 1052-1062.	3.5	30
8	Complete stability of feedback CNNs with dynamic memristors and second-order cells. International Journal of Circuit Theory and Applications, 2016, 44, 1959-1981.	1.3	30
9	Lyapunov Method and Convergence of the Full-Range Model of CNNs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3528-3541.	3.5	29
10	Necessary and sufficient condition for multistability of neural networks evolving on a closed hypercube. Neural Networks, 2014, 54, 38-48.	3.3	29
11	Instantaneous Rotation Speed Measurement System Based on Variable Reluctance Sensors for Torsional Vibration Monitoring. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2363-2373.	2.4	25
12	Nonlinear Networks With Mem-Elements: Complex Dynamics via Flux-Charge Analysis Method. IEEE Transactions on Cybernetics, 2020, 50, 4758-4771.	6.2	24
13	Convergence of a Class of Cooperative Standard Cellular Neural Network Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 772-783.	3.5	22
14	Stability of memristor neural networks with delays operating in the flux-charge domain. Journal of the Franklin Institute, 2018, 355, 5135-5162.	1.9	21
15	Harmonic balance method to analyze bifurcations in memristor oscillatory circuits. International Journal of Circuit Theory and Applications, 2018, 46, 66-83.	1.3	20
16	Global Robust Stability Criteria for Interval Delayed Full-Range Cellular Neural Networks. IEEE Transactions on Neural Networks, 2011, 22, 666-671.	4.8	19
17	Physically Unclonable Functions Derived From Cellular Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3205-3214.	3.5	19
18	Prediction of period doubling bifurcations in harmonically forced memristor circuits. Nonlinear Dynamics, 2019, 96, 1169-1190.	2.7	19

#	ARTICLE	IF	CITATIONS
19	HARMONIC BALANCE APPROACH TO PREDICT PERIOD-DOUBLING BIFURCATIONS IN NEARLY SYMMETRIC CNNs. Journal of Circuits, Systems and Computers, 2003, 12, 435-459.	1.0	16
20	Robustness of convergence in finite time for linear programming neural networks. International Journal of Circuit Theory and Applications, 2006, 34, 307-316.	1.3	15
21	LIMIT SET DICHOTOMY AND CONVERGENCE OF SEMIFLOWS DEFINED BY COOPERATIVE STANDARD CNNs. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3549-3563.	0.7	15
22	COMPLEX DYNAMICS IN NEARLY SYMMETRIC THREE-CELL CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1357-1362.	0.7	14
23	On global exponential stability of standard and full-range CNNs. International Journal of Circuit Theory and Applications, 2008, 36, 653-680.	1.3	14
24	Nonsmooth Neural Network for Convex Time-Dependent Constraint Satisfaction Problems. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 295-307.	7.2	14
25	Memristor Neural Networks for Linear and Quadratic Programming Problems. IEEE Transactions on Cybernetics, 2022, 52, 1822-1835.	6.2	13
26	Unfolding Nonlinear Dynamics in Analogue Systems With Mem-Elements. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 14-24.	3.5	13
27	FOURTH-ORDER NEARLY-SYMMETRIC CNNs EXHIBITING COMPLEX DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 1579-1587.	0.7	12
28	Memristor Circuits for Simulating Neuron Spiking and Burst Phenomena. Frontiers in Neuroscience, 2021, 15, 681035.	1.4	11
29	Convergent Dynamics of Nonreciprocal Differential Variational Inequalities Modeling Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3227-3238.	3.5	8
30	Input-Output Characterization of the Dynamical Properties of Circuits with a Memelement. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050110.	0.7	8
31	Oscillatory Circuits With a Real Non-Volatile Stanford Memristor Model. IEEE Access, 2022, 10, 13650-13662.	2.6	8
32	Instantaneous rotation speed measurement system based on variable reluctance sensors: Model and analysis of performance. , 2018, , .		7
33	Control Design for Targeting Dynamics of Memristor Murali-Lakshmanan-Chua Circuit. , 2019, , .		7
34	Łojasiewicz inequality and exponential convergence of the full-range model of CNNs. International Journal of Circuit Theory and Applications, 2012, 40, 409-419.	1.3	6
35	Further results on convergence of cooperative standard cellular neural networks. , 2011, , .		5
36	Multistability of delayed neural networks with hard-limiter saturation nonlinearities. Neurocomputing, 2018, 293, 41-54.	3.5	5

#	ARTICLE	IF	CITATIONS
37	Input design for controlling dynamics in a second-order memristive circuit. , 2020, , .		5
38	Circuits with a mem-element: invariant manifolds control via pulse programmed sources. Nonlinear Dynamics, 2021, 106, 2577-2606.	2.7	5
39	A note on the dichotomy of limit sets for cooperative CNNs with delays. , 2010, , .		4
40	A study on semiflows generated by cooperative full-range CNNs. International Journal of Circuit Theory and Applications, 2012, 40, 1191-1208.	1.3	4
41	Floquet multipliers of a metastable rotating wave in a Chua-Yang ring network. Journal of Mathematical Analysis and Applications, 2016, 434, 798-836.	0.5	4
42	A CMOS PUF Circuit Primitive Based on a Two-Dimensional Nonlinear Dynamical System. , 2019, , .		3
43	A controlled Murali-Lakshmanan-Chua memristor circuit to mimic neuron dynamics. , 2019, , .		3
44	Targeting Multistable Dynamics in a Second-Order Memristor Circuit. , 2020, , .		3
45	ON THE EFFECT OF NEURON ACTIVATION GAIN ON ROBUSTNESS OF COMPLETE STABILITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1807-1811.	0.7	2
46	ON THE MARGIN OF COMPLETE STABILITY FOR A CLASS OF CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1343-1361.	0.7	2
47	State Equations of Memristor Circuits with Nonlinear Lossless Elements in the Flux-Charge Domain. , 2019, , .		2
48	Set Membership Localization and Map Building for Mobile Robots. , 2006, , 289-308.		2
49	New method to analyze the invariant manifolds of memristor circuits. Journal of the Franklin Institute, 2022, 359, 11007-11038.	1.9	2
50	Convergence of a Class of Delayed Neural Networks with Real Memristor Devices. Mathematics, 2022, 10, 2439.	1.1	2
51	GLOBAL CONSISTENCY OF DECISIONS AND CONVERGENCE OF COMPETITIVE CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3127-3150.	0.7	1
52	Extended LaSalle's Invariance Principle for Full-Range Cellular Neural Networks. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	1
53	Comparison of convergence and stability properties for the state and output solutions of neural networks. International Journal of Circuit Theory and Applications, 2011, 39, 751-774.	1.3	1
54	Monotonicity of semiflows generated by cooperative delayed full-range CNNs. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	Multiple metastable rotating waves and long transients in cooperative CNN rings. , 2013, , .		1
56	A 1-bit Physically Unclonable Function based on a two-neurons CNN. , 2013, , .		1
57	A demonstration circuit implementing 1-bit Physically Unclonable Functions based on two-neurons CNNs. , 2014, , .		1
58	Transient Control in Targeting Multistable Dynamics of a Memristor Circuit. , 2021, , .		1
59	Feedforward control of multistability in memristor circuits. , 2021, , .		1
60	ROBUSTNESS OF COMPLETE STABILITY FOR 1-D CIRCULAR CNNs. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2177-2190.	0.7	0
61	Robustness of complete stability for a class of nearly-symmetric cellular neural networks. , 2006, , .		0
62	A study on global robust stability of delayed full-range cellular neural networks. , 2008, , .		0
63	Extended LaSalle's invariance principle for full-range cellular neural networks. , 2008, , .		0
64	Set-valued derivative and Lyapunov method for full-range cellular neural networks. , 2009, , .		0
65	Path planning with uncertainty: A set membership approach. International Journal of Adaptive Control and Signal Processing, 2011, 25, 273-287.	2.3	0
66	Turbomachinery Clearance Monitoring Based on Passive Variable Reluctance Magnetic Sensors. , 2018, , .		0
67	Unfolding nonlinear dynamics in computing systems with mem-elements. , 2019, , .		0
68	On controlling multistability in memristor circuits. , 2021, , .		0