Mauro Di Marco

List of Publications by Year in Descending Order

54 papers	681 citations	15 h-index	24 g-index
69 ext. papers	822 ext. citations	4 avg, IF	4.35 L-index

#	Paper	IF	Citations
54	Oscillatory Circuits With a Real Non-Volatile Stanford Memristor Model. *IEEE Access*, **2022**, 10, 13650-13662	3.9	
53	Dynamic Analysis of Memristor Circuits via Input□Output Techniques **2022**, 21-52		
52	Transient Control in Targeting Multistable Dynamics of a Memristor Circuit **2021**,		1
51	Memristor Circuits for Simulating Neuron Spiking and Burst Phenomena. *Frontiers in Neuroscience*, **2021**, 15, 681035	5.1	3
50	Unfolding Nonlinear Dynamics in Analogue Systems With Mem-Elements. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 68, 14-24	3.9	7
49	Memristor Neural Networks for Linear and Quadratic Programming Problems. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	1
48	Targeting Multistable Dynamics in a Second-Order Memristor Circuit **2020**,		3
47	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	2	4
46	Input design for controlling dynamics in a second-order memristive circuit **2020**,		3
45	Nonlinear Networks With Mem-Elements: Complex Dynamics via Flux-Charge Analysis Method. *IEEE Transactions on Cybernetics*, **2020**, 50, 4758-4771	10.2	16
44	Control Design for Targeting Dynamics of Memristor Murali-Lakshmanan-Chua Circuit **2019**,		5
43	**2019**,		1
42	Prediction of period doubling bifurcations in harmonically forced memristor circuits. *Nonlinear Dynamics*, **2019**, 96, 1169-1190	5	15
41	A controlled Murali-Lakshmanan-Chua memristor circuit to mimic neuron dynamics **2019**,		2
40	Instantaneous Rotation Speed Measurement System Based on Variable Reluctance Sensors for Torsional Vibration Monitoring. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 2363-2373	5.2	15
39	Stability of memristor neural networks with delays operating in the flux-charge domain. *Journal of the Franklin Institute*, **2018**, 355, 5135-5162	4	11
38	Multistability of delayed neural networks with hard-limiter saturation nonlinearities. *Neurocomputing*, **2018**, 293, 41-54	5.4	4

37	New Conditions for Global Asymptotic Stability of Memristor Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 1822-1834	10.3	38
36	Harmonic balance method to analyze bifurcations in memristor oscillatory circuits. *International Journal of Circuit Theory and Applications*, **2018**, 46, 66-83	2	13
35	Memristor standard cellular neural networks computing in the flux-charge domain. *Neural Networks*, **2017**, 93, 152-164	9.1	31
34	Convergence and Multistability of Nonsymmetric Cellular Neural Networks With Memristors. *IEEE Transactions on Cybernetics*, **2017**, 47, 2970-2983	10.2	51
33	Discontinuous Neural Networks for Finite-Time Solution of Time-Dependent Linear Equations. *IEEE Transactions on Cybernetics*, **2016**, 46, 2509-2520	10.2	35
32	Nonsmooth Neural Network for Convex Time-Dependent Constraint Satisfaction Problems. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 295-307	10.3	13
31	Floquet multipliers of a metastable rotating wave in a Chua ang ring network. *Journal of Mathematical Analysis and Applications*, **2016**, 434, 798-836	1.1	3
30	Complete stability of feedback CNNs with dynamic memristors and second-order cells. *International Journal of Circuit Theory and Applications*, **2016**, 44, 1959-1981	2	21
29	Necessary and sufficient condition for multistability of neural networks evolving on a closed hypercube. *Neural Networks*, **2014**, 54, 38-48	9.1	27
28	Physically Unclonable Functions Derived From Cellular Neural Networks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 3205-3214	3.9	10
27	Convergent Dynamics of Nonreciprocal Differential Variational Inequalities Modeling Neural Networks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 3227-3238	3.9	7
26	Multiple metastable rotating waves and long transients in cooperative CNN rings **2013**,		1
25	ojasiewicz inequality and exponential convergence of the full-range model of CNNs. *International Journal of Circuit Theory and Applications*, **2012**, 40, 409-419	2	4
24	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2012**, 59, 772-783	3.9	19
23	Limit set dichotomy and multistability for a class of cooperative neural networks with delays. *IEEE Transactions on Neural Networks and Learning Systems*, **2012**, 23, 1473-85	10.3	42
22	A study on semiflows generated by cooperative full-range CNNs. *International Journal of Circuit Theory and Applications*, **2012**, 40, 1191-1208	2	3
21	Path planning with uncertainty: A set membership approach. *International Journal of Adaptive Control and Signal Processing*, **2011**, 25, 273-287	2.8	
20	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	2	1

19	Global robust stability criteria for interval delayed full-range cellular neural networks. *IEEE Transactions on Neural Networks*, **2011**, 22, 666-71		18
18	Limit Set Dichotomy and Convergence of Cooperative Piecewise Linear Neural Networks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2011**, 58, 1052-1062	3.9	24
17	Further results on convergence of cooperative standard cellular neural networks **2011**,		3
16	A note on the dichotomy of limit sets for cooperative CNNs with delays **2010**,		1
15	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	2	12
14	Extended LaSalle's Invariance Principle for Full-Range Cellular Neural Networks. *Eurasip Journal on Advances in Signal Processing*, **2009**, 2009,	1.9	1
13	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	2	2
12	Lyapunov Method and Convergence of the Full-Range Model of CNNs. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 3528-3541	3.9	25
11	On global exponential stability of standard and full-range CNNs. *International Journal of Circuit Theory and Applications*, **2008**, 36, 653-680	2	12
10	Collective circular motion of multi-vehicle systems. *Automatica*, **2008**, 44, 3025-3035	5.7	123
9	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	2	1
8	Robustness of convergence in finite time for linear programming neural networks. *International Journal of Circuit Theory and Applications*, **2006**, 34, 307-316	2	11
7	ROBUSTNESS OF COMPLETE STABILITY FOR 1-D CIRCULAR CNNs. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2006**, 16, 2177-2190	2	
6	Set Membership Localization and Map Building for Mobile Robots **2006**, 289-308		2
5	FOURTH-ORDER NEARLY-SYMMETRIC CNNS EXHIBITING COMPLEX DYNAMICS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2005**, 15, 1579-1587	2	8
4	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	2	1
3	HARMONIC BALANCE APPROACH TO PREDICT PERIOD-DOUBLING BIFURCATIONS IN NEARLY SYMMETRIC CNNs. *Journal of Circuits, Systems and Computers*, **2003**, 12, 435-459	0.9	13
2	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	2	11

List of Publications

1	Circuits with a mem-element: invariant manifolds control via pulse programmed sources. *Nonlinear Dynamics*,1	5	1