

Mauro Forti

List of Publications by Year in Descending Order

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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.

84
papers

1,786
citations

21
h-index

41
g-index

94
ext. papers

2,076
ext. citations

3.4
avg, IF

5.26
L-index

#	Paper	IF	Citations
84	Oscillatory Circuits With a Real Non-Volatile Stanford Memristor Model. <i>IEEE Access</i> , 2022 , 10, 13650-13662		
83	Dynamic Analysis of Memristor Circuits via InputOutput Techniques 2022 , 21-52		
82	Nonlinear Dynamics of Circuits with Mem-Elements 2021 , 387-431		
81	Fundamental Properties of Mem-Elements 2021 , 27-97		
80	Flux-Charge Analysis Method of Memristor Circuits 2021 , 163-217		
79	Memristor Circuits: Invariant Manifolds, Coexisting Attractors, Extreme Multistability, and Bifurcations Without Parameters 2021 , 219-269		1
78	Memristor Cellular Neural Networks Computing in the Flux-charge Domain 2021 , 343-372		0
77	Transient Control in Targeting Multistable Dynamics of a Memristor Circuit 2021 ,		1
76	Memristor Circuits for Simulating Neuron Spiking and Burst Phenomena. <i>Frontiers in Neuroscience</i> , 2021 , 15, 681035	5.1	3
75	Unfolding Nonlinear Dynamics in Analogue Systems With Mem-Elements. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 14-24	3.9	7
74	Nonlinear Circuits and Systems with Memristors 2021 ,		9
73	Memristor Neural Networks for Linear and Quadratic Programming Problems. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	1
72	Targeting Multistable Dynamics in a Second-Order Memristor Circuit 2020 ,		3
71	InputOutput Characterization of the Dynamical Properties of Circuits with a Memelement. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2050110	2	4
70	Input design for controlling dynamics in a second-order memristive circuit 2020 ,		3
69	Nonlinear Networks With Mem-Elements: Complex Dynamics via Flux-Charge Analysis Method. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4758-4771	10.2	16
68	Control Design for Targeting Dynamics of Memristor Murali-Lakshmanan-Chua Circuit 2019 ,		5

67	2019,			1
66	Prediction of period doubling bifurcations in harmonically forced memristor circuits. <i>Nonlinear Dynamics</i> , 2019 , 96, 1169-1190	5		15
65	A controlled Murali-Lakshmanan-Chua memristor circuit to mimic neuron dynamics 2019,			2
64	Stability of memristor neural networks with delays operating in the flux-charge domain. <i>Journal of the Franklin Institute</i> , 2018 , 355, 5135-5162	4		11
63	Complex Dynamics in Arrays of Memristor Oscillators via the Flux-Charge Method. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1040-1050	3.9		21
62	Flux-Charge Description of Circuits With Non-Volatile Switching Memristor Devices. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 642-646	3.5		9
61	Multistability of delayed neural networks with hard-limiter saturation nonlinearities. <i>Neurocomputing</i> , 2018 , 293, 41-54	5.4		4
60	New Conditions for Global Asymptotic Stability of Memristor Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 1822-1834	10.3		38
59	Harmonic balance method to analyze bifurcations in memristor oscillatory circuits. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 66-83	2		13
58	Memristor Circuits: Pulse Programming via Invariant Manifolds. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1327-1339	3.9		25
57	Memristor Circuits: Bifurcations without Parameters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017 , 64, 1540-1551	3.9		65
56	Memristor standard cellular neural networks computing in the flux-charge domain. <i>Neural Networks</i> , 2017 , 93, 152-164	9.1		31
55	Convergence and Multistability of Nonsymmetric Cellular Neural Networks With Memristors. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2970-2983	10.2		51
54	Nonlinear dynamics of memristor oscillators via the flux-charge analysis method 2017,			3
53	Discontinuous Neural Networks for Finite-Time Solution of Time-Dependent Linear Equations. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2509-2520	10.2		35
52	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 1997-2009	3.9		79
51	Nonsmooth Neural Network for Convex Time-Dependent Constraint Satisfaction Problems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 295-307	10.3		13
50	Floquet multipliers of a metastable rotating wave in a Chua ring network. <i>Journal of Mathematical Analysis and Applications</i> , 2016 , 434, 798-836	1.1		3

49	Complete stability of feedback CNNs with dynamic memristors and second-order cells. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1959-1981	2	21
48	Long transient oscillations in a class of cooperative cellular neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 635-655	2	6
47	Necessary and sufficient condition for multistability of neural networks evolving on a closed hypercube. <i>Neural Networks</i> , 2014 , 54, 38-48	9.1	27
46	Convergent Dynamics of Nonreciprocal Differential Variational Inequalities Modeling Neural Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 3227-3238	3.9	7
45	Multiple metastable rotating waves and long transients in cooperative CNN rings 2013 ,		1
44	Bjasiwicz inequality and exponential convergence of the full-range model of CNNs. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 409-419	2	4
43	An experimental study on long transient oscillations in cooperative CNN rings 2012 ,		4
42	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 772-783	3.9	19
41	Limit set dichotomy and multistability for a class of cooperative neural networks with delays. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1473-85	10.3	42
40	A study on semiflows generated by cooperative full-range CNNs. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 1191-1208	2	3
39	Comparison of convergence and stability properties for the state and output solutions of neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 751-774	2	1
38	Limit Set Dichotomy and Convergence of Cooperative Piecewise Linear Neural Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 1052-1062	3.9	24
37	Further results on convergence of cooperative standard cellular neural networks 2011 ,		3
36	Common asymptotic behavior of solutions and almost periodicity for discontinuous, delayed, and impulsive neural networks. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1110-25		64
35	LIMIT SET DICHOTOMY AND CONVERGENCE OF SEMIFLOWS DEFINED BY COOPERATIVE STANDARD CNNs. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 3549-3563	2	12
34	Extended LaSalle's Invariance Principle for Full-Range Cellular Neural Networks. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009 , 2009,	1.9	1
33	Convergence of a subclass of Cohen-Grossberg neural networks via the Bjasiwicz inequality. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 252-7		13
32	ON THE MARGIN OF COMPLETE STABILITY FOR A CLASS OF CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1343-1361	2	2

31	Lyapunov Method and Convergence of the Full-Range Model of CNNs. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 3528-3541	3.9	25
30	On global exponential stability of standard and full-range CNNs. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 653-680	2	12
29	Dynamical Analysis of Full-Range Cellular Neural Networks by Exploiting Differential Variational Inequalities. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2007 , 54, 1736-1749		22
28	M-matrices and global convergence of discontinuous neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 105-130	2	39
27	GLOBAL CONSISTENCY OF DECISIONS AND CONVERGENCE OF COMPETITIVE CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 3127-3150	2	1
26	Robustness of convergence in finite time for linear programming neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 307-316	2	11
25	Convergence of neural networks for programming problems via a nonsmooth Lojasiewicz inequality. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 1471-86		75
24	THE LOJASIEWICZ EXPONENT AT AN EQUILIBRIUM POINT OF A STANDARD CNN IS 1/2. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 2191-2205	2	17
23	Generalized Lyapunov approach for convergence of neural networks with discontinuous or non-Lipschitz activations. <i>Physica D: Nonlinear Phenomena</i> , 2006 , 214, 88-99	3.3	236
22	Global exponential stability and global convergence in finite time of delayed neural networks with infinite gain. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 1449-63		291
21	FOURTH-ORDER NEARLY-SYMMETRIC CNNs EXHIBITING COMPLEX DYNAMICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 1579-1587	2	8
20	ON THE EFFECT OF NEURON ACTIVATION GAIN ON ROBUSTNESS OF COMPLETE STABILITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 1807-1811	2	1
19	HARMONIC BALANCE APPROACH TO PREDICT PERIOD-DOUBLING BIFURCATIONS IN NEARLY SYMMETRIC CNNs. <i>Journal of Circuits, Systems and Computers</i> , 2003 , 12, 435-459	0.9	13
18	On complete stability of linear and quadratic programming neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2002 , 30, 587-593	2	
17	COMPLEX DYNAMICS IN NEARLY SYMMETRIC THREE-CELL CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002 , 12, 1357-1362	2	11
16	Some extensions of a new method to analyze complete stability of neural networks. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 1230-8		33
15	A study on WTA cellular neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2001 , 29, 537-552	2	2
14	A NEW METHOD TO ANALYZE COMPLETE STABILITY OF PWL CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001 , 11, 655-676	2	35

13	Low-frequency transients and impedance in the power mains considering line loading. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1996 , 38, 310-317	2	1
12	A cellular neural network for packet selection in a fast packet switching fabric with input buffers. <i>IEEE Transactions on Communications</i> , 1996 , 44, 1649-1652	6.9	5
11	Efficient fast packet switching fabric using neural networks. <i>Electronics Letters</i> , 1994 , 30, 1077-1078	1.1	
10	New linear and quadratic programming neural network. <i>Electronics Letters</i> , 1994 , 30, 1693-1694	1.1	1
9	On Global Asymptotic Stability of a Class of Nonlinear Systems Arising in Neural Network Theory. <i>Journal of Differential Equations</i> , 1994 , 113, 246-264	2.1	130
8	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1991 , 33, 113-119	2	2
7	. <i>IEEE Transactions on Circuits and Systems</i> , 1991 , 38, 202-209		55
6	A neural network for signal decomposition problems. <i>International Journal of Circuit Theory and Applications</i> , 1991 , 19, 65-75	2	5
5	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1990 , 32, 87-97	2	12
4	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1990 , 32, 205-216	2	2
3	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1989 , 31, 245-253	2	9
2	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1988 , 30, 351-357	2	3
1	Circuits with a mem-element: invariant manifolds control via pulse programmed sources. <i>Nonlinear Dynamics</i> ,1	5	1