Mauro Forti

List of Publications by Year
in descending order

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88	2,275	279487	223531
papers	citations	23 h-index	46 g-index

94	94	94	821
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global Exponential Stability and Global Convergence in Finite Time of Delayed Neural Networks With Infinite Gain. IEEE Transactions on Neural Networks, 2005, 16, 1449-1463.	4.8	324
2	Generalized Lyapunov approach for convergence of neural networks with discontinuous or non-Lipschitz activations. Physica D: Nonlinear Phenomena, 2006, 214, 88-99.	1.3	282
3	On Global Asymptotic Stability of a Class of Nonlinear Systems Arising in Neural Network Theory. Journal of Differential Equations, 1994, 113, 246-264.	1.1	158
4	Memristor Circuits: Fluxâ€"Charge Analysis Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1997-2009.	3.5	106
5	Memristor Circuits: Bifurcations without Parameters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1540-1551.	3.5	96
6	Convergence of Neural Networks for Programming Problems via a Nonsmooth Łojasiewicz Inequality. IEEE Transactions on Neural Networks, 2006, 17, 1471-1486.	4.8	85
7	On a class of nonsymmetrical neural networks with application to ADC. IEEE Transactions on Circuits and Systems, 1991, 38, 202-209.	0.9	77
8	Common Asymptotic Behavior of Solutions and Almost Periodicity for Discontinuous, Delayed, and Impulsive Neural Networks. IEEE Transactions on Neural Networks, 2010, 21, 1110-1125.	4.8	71
9	Convergence and Multistability of Nonsymmetric Cellular Neural Networks With Memristors. IEEE Transactions on Cybernetics, 2017, 47, 2970-2983.	6.2	66
10	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
11	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
12	A NEW METHOD TO ANALYZE COMPLETE STABILITY OF PWL CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 655-676.	0.7	44
13	M-matrices and global convergence of discontinuous neural networks. International Journal of Circuit Theory and Applications, 2007, 35, 105-130.	1.3	44
14	Memristor standard cellular neural networks computing in the fluxâ€"charge domain. Neural Networks, 2017, 93, 152-164.	3.3	44
15	Some extensions of a new method to analyze complete stability of neural networks. IEEE Transactions on Neural Networks, 2002, 13, 1230-1238.	4.8	43
16	Discontinuous Neural Networks for Finite-Time Solution of Time-Dependent Linear Equations. IEEE Transactions on Cybernetics, 2016, 46, 2509-2520.	6.2	39
17	Memristor Circuits: Pulse Programming via Invariant Manifolds. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1327-1339.	3.5	36
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.	3.5	30

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19	Complete stability of feedback CNNs with dynamic memristors and secondâ€order cells. International Journal of Circuit Theory and Applications, 2016, 44, 1959-1981.	1.3	30
20	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
21	Necessary and sufficient condition for multistability of neural networks evolving on a closed hypercube. Neural Networks, 2014, 54, 38-48.	3.3	29
22	Dynamical Analysis of Full-Range Cellular Neural Networks by Exploiting Differential Variational Inequalities. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1736-1749.	0.1	27
23	Complex Dynamics in Arrays of Memristor Oscillators via the Fluxâ€“Charge Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1040-1050.	3.5	27
24	Nonlinear Networks With Mem-Elements: Complex Dynamics via Fluxâ€“Charge Analysis Method. IEEE Transactions on Cybernetics, 2020, 50, 4758-4771.	6.2	24
25	Nonlinear Circuits and Systems with Memristors. , 2021, , .		23
26	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
27	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
28	Harmonic balance method to analyze bifurcations in memristor oscillatory circuits. International Journal of Circuit Theory and Applications, 2018, 46, 66-83.	1.3	20
29	Power-line impedance and the origin of the low-frequency oscillatory transients. IEEE Transactions on Electromagnetic Compatibility, 1990, 32, 87-97.	1.4	19
30	THE ÅOJASIEWICZ EXPONENT AT AN EQUILIBRIUM POINT OF A STANDARD CNN IS 1/2. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2191-2205.	0.7	19
31	Prediction of period doubling bifurcations in harmonically forced memristor circuits. Nonlinear Dynamics, 2019, 96, 1169-1190.	2.7	19
32	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
33	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
34	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
35	Flux-Charge Description of Circuits With Non-Volatile Switching Memristor Devices. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 642-646.	2.2	15
36	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

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37	On global exponential stability of standard and fullâ€range CNNs. International Journal of Circuit Theory and Applications, 2008, 36, 653-680.	1.3	14
38	Convergence of a Subclass of Cohenâ€“Grossberg Neural Networks via the Åojasiewicz Inequality. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 252-257.	5.5	14
39	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
40	Memristor Neural Networks for Linear and Quadratic Programming Problems. IEEE Transactions on Cybernetics, 2022, 52, 1822-1835.	6.2	13
41	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
42	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
43	A notch-filter network for wide-band measurements of transient voltages on the power line. IEEE Transactions on Electromagnetic Compatibility, 1989, 31, 245-253.	1.4	11
44	Memristor Circuits for Simulating Neuron Spiking and Burst Phenomena. Frontiers in Neuroscience, 2021, 15, 681035.	1.4	11
45	A cellular neural network for packet selection in a fast packet switching fabric with input buffers. IEEE Transactions on Communications, 1996, 44, 1649-1652.	4.9	9
46	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
47	Inputâ€“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
48	Oscillatory Circuits With a Real Non-Volatile Stanford Memristor Model. IEEE Access, 2022, 10, 13650-13662.	2.6	8
49	Long transient oscillations in a class of cooperative cellular neural networks. International Journal of Circuit Theory and Applications, 2015, 43, 635-655.	1.3	7
50	Control Design for Targeting Dynamics of Memristor Murali-Lakshmanan-Chua Circuit. , 2019, , .		7
51	Åojasiewicz inequality and exponential convergence of the fullâ€range model of CNNs. International Journal of Circuit Theory and Applications, 2012, 40, 409-419.	1.3	6
52	A broad-band network for power-line disturbance voltage measurements. IEEE Transactions on Electromagnetic Compatibility, 1988, 30, 351-357.	1.4	5
53	Power-mains transients from connection of resistive loads and a possible capacitive mitigation. IEEE Transactions on Electromagnetic Compatibility, 1991, 33, 113-119.	1.4	5
54	A neural network for signal decomposition problems. International Journal of Circuit Theory and Applications, 1991, 19, 65-75.	1.3	5

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55	Further results on convergence of cooperative standard cellular neural networks. , 2011, , .		5
56	An experimental study on long transient oscillations in cooperative CNN rings. , 2012, , .		5
57	Nonlinear dynamics of memristor oscillators via the flux-charge analysis method. , 2017, , .		5
58	Multistability of delayed neural networks with hard-limiter saturation nonlinearities. Neurocomputing, 2018, 293, 41-54.	3.5	5
59	Input design for controlling dynamics in a second-order memristive circuit. , 2020, , .		5
60	Circuits with a mem-element: invariant manifolds control via pulse programmed sources. Nonlinear Dynamics, 2021, 106, 2577-2606.	2.7	5
61	A study on semiflows generated by cooperative fullâ€range CNNs. International Journal of Circuit Theory and Applications, 2012, 40, 1191-1208.	1.3	4
62	Floquet multipliers of a metastable rotating wave in a Chuaâ€“Yang ring network. Journal of Mathematical Analysis and Applications, 2016, 434, 798-836.	0.5	4
63	Low-frequency transients and impedance in the power mains considering line loading. IEEE Transactions on Electromagnetic Compatibility, 1996, 38, 310-317.	1.4	3
64	A controlled Murali-Lakshmanan-Chua memristor circuit to mimic neuron dynamics. , 2019, , .		3
65	Targeting Multistable Dynamics in a Second-Order Memristor Circuit. , 2020, , .		3
66	Analysis of errors in transient disturbance measurements using high-pass probes. IEEE Transactions on Electromagnetic Compatibility, 1990, 32, 205-216.	1.4	2
67	A study on WTA cellular neural networks. International Journal of Circuit Theory and Applications, 2001, 29, 537-552.	1.3	2
68	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
69	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
70	State Equations of Memristor Circuits with Nonlinear Lossless Elements in the Flux-Charge Domain. , 2019, , .		2
71	New method to analyze the invariant manifolds of memristor circuits. Journal of the Franklin Institute, 2022, 359, 11007-11038.	1.9	2
72	Convergence of a Class of Delayed Neural Networks with Real Memristor Devices. Mathematics, 2022, 10, 2439.	1.1	2

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73	New linear and quadratic programming neural network. Electronics Letters, 1994, 30, 1693-1694.	0.5	1
74	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
75	Extended LaSalle's Invariance Principle for Full-Range Cellular Neural Networks. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	1
76	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
77	Monotonicity of semiflows generated by cooperative delayed full-range CNNs. , 2012, , .		1
78	Multiple metastable rotating waves and long transients in cooperative CNN rings. , 2013, , .		1
79	Transient Control in Targeting Multistable Dynamics of a Memristor Circuit. , 2021, , .		1
80	Feedforward control of multistability in memristor circuits. , 2021, , .		1
81	Efficient fast packet switching fabric using neural networks. Electronics Letters, 1994, 30, 1077-1078.	0.5	0
82	On complete stability of linear and quadratic programming neural networks. International Journal of Circuit Theory and Applications, 2002, 30, 587-593.	1.3	0
83	Robustness of complete stability for a class of nearly-symmetric cellular neural networks. , 2006, , .		0
84	Extended LaSalle’s invariance principle for full-range cellular neural networks. , 2008, , .		0
85	Unfolding nonlinear dynamics in computing systems with mem-elements. , 2019, , .		0
86	Robustness of Complete Stability for a Class of Nearly-Symmetric Cellular Neural Networks. , 2006, , .		0
87	Flux-Charge Analysis Method of Memristor Circuits. , 2021, , 163-217.		0
88	On controlling multistability in memristor circuits. , 2021, , .		0