

# Tianping Chen

## List of Publications by Year in descending order

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135  
papers

9,437  
citations

36299

51  
h-index

37202

96  
g-index

138  
all docs

138  
docs citations

138  
times ranked

2621  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pinning Complex Networks by a Single Controller. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1317-1326.	0.1	905
2	New approach to synchronization analysis of linearly coupled ordinary differential systems. Physica D: Nonlinear Phenomena, 2006, 213, 214-230.	2.8	523
3	Cluster Synchronization of Linearly Coupled Complex Networks Under Pinning Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 829-839.	5.4	390
4	Synchronization of Complex Networks via Aperiodically Intermittent Pinning Control. IEEE Transactions on Automatic Control, 2015, 60, 3316-3321.	5.7	291
5	Global exponential stability of delayed Hopfield neural networks. Neural Networks, 2001, 14, 977-980.	5.9	289
6	Cluster Synchronization in Directed Networks Via Intermittent Pinning Control. IEEE Transactions on Neural Networks, 2011, 22, 1009-1020.	4.2	288
7	Delay-independent stability analysis of Cohen-Grossberg neural networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 317, 436-449.	2.1	270
8	Synchronization in general complex delayed dynamical networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 733-744.	0.1	247
9	Synchronization of Nonlinear Coupled Networks via Aperiodically Intermittent Pinning Control. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 113-126.	11.3	213
10	Synchronization of Linearly Coupled Networks With Delays via Aperiodically Intermittent Pinning Control. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2396-2407.	11.3	211
11	Finite-Time and Fixed-Time Cluster Synchronization With or Without Pinning Control. IEEE Transactions on Cybernetics, 2018, 48, 240-252.	9.5	204
12	Cluster synchronization in networks of coupled nonidentical dynamical systems. Chaos, 2010, 20, 013120.	2.5	179
13	Dissipativity and quasi-synchronization for neural networks with discontinuous activations and parameter mismatches. Neural Networks, 2011, 24, 1013-1021.	5.9	176
14	Robust Global Exponential Stability of Cohen-Grossberg Neural Networks With Time Delays. IEEE Transactions on Neural Networks, 2004, 15, 203-206.	4.2	170
15	Global Synchronization Criteria of Linearly Coupled Neural Network Systems With Time-Varying Coupling. IEEE Transactions on Neural Networks, 2008, 19, 319-332.	4.2	168
16	Consensus of Multi-Agent Systems With Unbounded Time-Varying Delays. IEEE Transactions on Automatic Control, 2010, 55, 2396-2401.	5.7	167
17	Dynamical behaviors of Cohen-Grossberg neural networks with discontinuous activation functions. Neural Networks, 2005, 18, 231-242.	5.9	162
18	Synchronization analysis for nonlinearly-coupled complex networks with an asymmetrical coupling matrix. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4429-4439.	2.6	156

#	ARTICLE	IF	CITATIONS
19	Synchronization analysis of linearly coupled systems described by differential equations with a coupling delay. <i>Physica D: Nonlinear Phenomena</i> , 2006, 221, 118-134.	2.8	146
20	A note on finite-time and fixed-time stability. <i>Neural Networks</i> , 2016, 81, 11-15.	5.9	146
21	Consensus problem in directed networks of multi-agents via nonlinear protocols. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3122-3127.	2.1	141
22	Approximation capability in $C(\mathbb{R}^n)$ by multilayer feedforward networks and related problems. <i>IEEE Transactions on Neural Networks</i> , 1995, 6, 25-30.	4.2	140
23	Globally exponentially robust stability and periodicity of delayed neural networks. <i>Chaos, Solitons and Fractals</i> , 2004, 22, 957-963.	5.1	139
24	Stability of asymmetric Hopfield networks. <i>IEEE Transactions on Neural Networks</i> , 2001, 12, 159-163.	4.2	126
25	Global Exponential Stability for Complex-Valued Recurrent Neural Networks With Asynchronous Time Delays. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 593-606.	11.3	125
26	Synchronization analysis of linearly coupled networks of discrete time systems. <i>Physica D: Nonlinear Phenomena</i> , 2004, 198, 148-168.	2.8	123
27	Global $\mu$ -Stability of Delayed Neural Networks With Unbounded Time-Varying Delays. <i>IEEE Transactions on Neural Networks</i> , 2007, 18, 1836-1840.	4.2	122
28	New Conditions on Global Stability of Cohen-Grossberg Neural Networks. <i>Neural Computation</i> , 2003, 15, 1173-1189.	2.2	120
29	Dynamical Behaviors of Delayed Neural Network Systems with Discontinuous Activation Functions. <i>Neural Computation</i> , 2006, 18, 683-708.	2.2	111
30	Robust synchronization of delayed neural networks based on adaptive control and parameters identification. <i>Chaos, Solitons and Fractals</i> , 2006, 27, 905-913.	5.1	108
31	Almost Periodic Dynamics of a Class of Delayed Neural Networks with Discontinuous Activations. <i>Neural Computation</i> , 2008, 20, 1065-1090.	2.2	107
32	Coexistence and local stability of multiple equilibria in neural networks with piecewise linear nondecreasing activation functions. <i>Neural Networks</i> , 2010, 23, 189-200.	5.9	102
33	Multistability of Neural Networks With Mexican-Hat-Type Activation Functions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012, 23, 1816-1826.	11.3	101
34	A unified algorithm for principal and minor components extraction. <i>Neural Networks</i> , 1998, 11, 385-390.	5.9	94
35	Chaotic Lag Synchronization of Coupled Delayed Neural Networks and Its Applications in Secure Communication. <i>Circuits, Systems, and Signal Processing</i> , 2005, 24, 599-613.	2.0	93
36	Exponential synchronization of nonlinear coupled dynamical networks with a delayed coupling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 381, 82-92.	2.6	86

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37	Multistability and New Attraction Basins of Almost-Periodic Solutions of Delayed Neural Networks. IEEE Transactions on Neural Networks, 2009, 20, 1581-1593.	4.2	80
38	Unified stabilization approach to principal and minor components extraction algorithms. Neural Networks, 2001, 14, 1377-1387.	5.9	78
39	Dynamical Behaviors of a Large Class of General Delayed Neural Networks. Neural Computation, 2005, 17, 949-968.	2.2	78
40	New theorems on global convergence of some dynamical systems. Neural Networks, 2001, 14, 251-255.	5.9	73
41	Generalized Halanay Inequalities and Their Applications to Neural Networks With Unbounded Time-Varying Delays. IEEE Transactions on Neural Networks, 2011, 22, 1508-1513.	4.2	71
42	Cluster synchronization for delayed complex networks via periodically intermittent pinning control. Neurocomputing, 2015, 162, 191-200.	5.9	69
43	Multiple $\mu$ -stability of neural networks with unbounded time-varying delays. Neural Networks, 2014, 53, 109-118.	5.9	68
44	Achieving Cluster Consensus in Continuous-Time Networks of Multi-Agents With Inter-Cluster Non-Identical Inputs. IEEE Transactions on Automatic Control, 2015, 60, 793-798.	5.7	66
45	Synchronization in Networks of Linearly Coupled Dynamical Systems via Event-Triggered Diffusions. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3060-3069.	11.3	66
46	Global convergence of Oja's subspace algorithm for principal component extraction. IEEE Transactions on Neural Networks, 1998, 9, 58-67.	4.2	65
47	Power-Rate Global Stability of Dynamical Systems With Unbounded Time-Varying Delays. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 705-709.	2.2	65
48	Partial synchronization in linearly and symmetrically coupled ordinary differential systems. Physica D: Nonlinear Phenomena, 2009, 238, 355-364.	2.8	65
49	Global Convergence of Delayed Neural Network Systems. International Journal of Neural Systems, 2003, 13, 193-204.	5.2	61
50	Consensus in Networks of Multiagents With Cooperation and Competition Via Stochastically Switching Topologies. IEEE Transactions on Neural Networks, 2008, 19, 1967-1973.	4.2	55
51	Global Synchronization of Discrete-Time Dynamical Network With a Directed Graph. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 136-140.	2.2	52
52	Complete stability of cellular neural networks with unbounded time-varying delays. Neural Networks, 2012, 36, 11-17.	5.9	52
53	Robust $\mu$ -stability for uncertain stochastic neural networks with unbounded time-varying delays. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2952-2962.	2.6	50
54	$\mu$ -global stability of a Cohen-Grossberg neural network system with nonnegative equilibria. Neural Networks, 2007, 20, 714-722.	5.9	48

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55	On Attracting Basins of Multiple Equilibria of a Class of Cellular Neural Networks. IEEE Transactions on Neural Networks, 2011, 22, 381-394.	4.2	48
56	Consensus in Networks of Multiagents with Switching Topologies Modeled as Adapted Stochastic Processes. SIAM Journal on Control and Optimization, 2011, 49, 227-253.	2.1	48
57	ADAPTIVE SYNCHRONIZATION OF COUPLED CHAOTIC DELAYED SYSTEMS BASED ON PARAMETER IDENTIFICATION AND ITS APPLICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2923-2933.	1.7	45
58	Boundedness and synchronization of $\gamma$ -coupled Lorenz systems with or without controllers. Physica D: Nonlinear Phenomena, 2008, 237, 630-639.	2.8	45
59	Global $\mu$ -Synchronization of Linearly Coupled Unbounded Time-Varying Delayed Neural Networks With Unbounded Delayed Coupling. IEEE Transactions on Neural Networks, 2008, 19, 1809-1816.	4.2	45
60	Finite-time anti-synchronization of neural networks with time-varying delays. Neurocomputing, 2018, 275, 1595-1600.	5.9	45
61	Stability analysis of some delay differential inequalities with small time delays and its applications. Neural Networks, 2012, 33, 1-6.	5.9	42
62	Global convergence of delayed dynamical systems. IEEE Transactions on Neural Networks, 2001, 12, 1532-1536.	4.2	41
63	$\mu$ -Stability of Nonlinear Positive Systems With Unbounded Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1710-1715.	11.3	41
64	Global almost sure self-synchronization of Hopfield neural networks with randomly switching connections. Neural Networks, 2011, 24, 305-310.	5.9	34
65	A new result on the global convergence of Hopfield neural networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1514-1516.	0.1	33
66	New conditions on synchronization of networks of linearly coupled dynamical systems with non-Lipschitz right-hand sides. Neural Networks, 2012, 25, 5-13.	5.9	33
67	EXPONENTIAL SYNCHRONIZATION OF NONLINEAR COUPLED DYNAMICAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 999-1005.	1.7	32
68	New criterion of asymptotic stability for delay systems with time-varying structures and delays. Neural Networks, 2014, 54, 103-111.	5.9	31
69	Global exponential stability of delayed periodic dynamical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 322, 344-355.	2.1	30
70	ON PERIODIC DYNAMICAL SYSTEMS. Chinese Annals of Mathematics Series B, 2004, 25, 455-462.	0.4	29
71	Exponential Convergence of Delayed Dynamical Systems. Neural Computation, 2001, 13, 621-635.	2.2	27
72	Pinning networks of coupled dynamical systems with Markovian switching couplings and event-triggered diffusions. Journal of the Franklin Institute, 2015, 352, 3526-3545.	3.4	27

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73	Finite-time and fixed-time anti-synchronization of neural networks with time-varying delays. <i>Neurocomputing</i> , 2019, 329, 165-171.	5.9	27
74	QUAD-Condition, Synchronization, Consensus of Multiagents, and Anti-Synchronization of Complex Networks. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3384-3388.	9.5	27
75	Convergence of Delayed Dynamical Systems. <i>Neural Processing Letters</i> , 1999, 10, 267-271.	3.2	21
76	Modified Oja's Algorithms For Principal Subspace and Minor Subspace extraction. <i>Neural Processing Letters</i> , 1997, 5, 35-40.	3.2	20
77	Consensus analysis of networks with time-varying topology and event-triggered diffusions. <i>Neural Networks</i> , 2015, 71, 196-203.	5.9	20
78	Sequential Extraction of Minor Components. <i>Neural Processing Letters</i> , 2001, 13, 195-201.	3.2	19
79	New Results on the Robust Stability of Cohen-Grossberg Neural Networks with Delays. <i>Neural Processing Letters</i> , 2006, 24, 193-202.	3.2	19
80	Global Convergence Rate of Recurrently Connected Neural Networks. <i>Neural Computation</i> , 2002, 14, 2947-2957.	2.2	18
81	Desynchronization of pulse-coupled oscillators with delayed excitatory coupling. <i>Nonlinearity</i> , 2007, 20, 789-808.	1.4	18
82	Nonnegative periodic dynamics of delayed Cohen-Grossberg neural networks with discontinuous activations. <i>Neurocomputing</i> , 2010, 73, 2765-2772.	5.9	18
83	Multistability and complete convergence analysis on high-order neural networks with a class of nonsmooth activation functions. <i>Neurocomputing</i> , 2015, 152, 222-230.	5.9	18
84	Synchronisation in complex networks of coupled systems with directed topologies. <i>International Journal of Systems Science</i> , 2009, 40, 909-921.	5.5	17
85	Exponential Synchronization of the Linearly Coupled Dynamical Networks with Delays*. <i>Chinese Annals of Mathematics Series B</i> , 2007, 28, 737-746.	0.4	16
86	Centralized and decentralized global outer-synchronization of asymmetric recurrent time-varying neural network by data-sampling. <i>Neural Networks</i> , 2016, 75, 22-31.	5.9	14
87	Cluster synchronization for linearly coupled complex networks. <i>Journal of Industrial and Management Optimization</i> , 2011, 7, 87-101.	1.3	14
88	Distributed event-triggered consensus for multi-agent systems with directed topologies. , 2016, , .		13
89	Pinning dynamic systems of networks with Markovian switching couplings and controller node set. <i>Systems and Control Letters</i> , 2014, 65, 56-63.	2.3	12
90	Adaptive algorithms for synchronization, consensus of multi-agents and anti-synchronization of direct complex networks. <i>Neurocomputing</i> , 2020, 414, 365-370.	5.9	11

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91	GLOBAL EXPONENTIAL STABILITY IN HOPFIELD AND BIDIRECTIONAL ASSOCIATIVE MEMORY NEURAL NETWORKS WITH TIME DELAYS. Chinese Annals of Mathematics Series B, 2004, 25, 255-262.	0.4	9
92	A New Approach to Synchronization Analysis of Linearly Coupled Map Lattices*. Chinese Annals of Mathematics Series B, 2007, 28, 149-160.	0.4	9
93	Finite time convergence of pinning synchronization with a single nonlinear controller. Neural Networks, 2021, 143, 246-249.	5.9	9
94	Universal approximation capability of EBF neural networks with arbitrary activation functions. Circuits, Systems, and Signal Processing, 1996, 15, 671-683.	2.0	8
95	Dynamic behavior of the whitening process. IEEE Signal Processing Letters, 1998, 5, 25-26.	3.6	8
96	Analysis of firing behaviors in networks of pulse-coupled oscillators with delayed excitatory coupling. Neural Networks, 2010, 23, 783-788.	5.9	8
97	Universal Approach to Study Delayed Dynamical Systems. Lecture Notes in Computer Science, 2005, , 245-253.	1.3	6
98	New effective approach to quasi synchronization of coupled heterogeneous complex networks. Neural Networks, 2022, 145, 139-143.	5.9	6
99	A unified approach for neural network-like approximation of non-linear functionals. Neural Networks, 1998, 11, 981-983.	5.9	5
100	Synchronization of identical neural networks and other systems with an adaptive coupling strength. International Journal of Circuit Theory and Applications, 2010, 38, 631-648.	2.0	5
101	Finite-time and fixed-time stability and synchronization. , 2016, , .		5
102	Global Asymptotical Stability of Cohen-Grossberg Neural Networks with Time-Varying and Distributed Delays. Lecture Notes in Computer Science, 2006, , 192-197.	1.3	5
103	Global Synchronization of Impulsive Coupled Delayed Neural Networks. Lecture Notes in Computer Science, 2006, , 303-308.	1.3	5
104	Existence and Global Stability Analysis of Almost Periodic Solutions for Cohen-Grossberg Neural Networks. Lecture Notes in Computer Science, 2006, , 204-210.	1.3	4
105	Cluster Synchronization in Uncertain Neural Networks Through Adaptive Controllers. Differential Equations and Dynamical Systems, 2011, 19, 47-61.	1.0	4
106	Achieving Synchronization in Arrays of Coupled Differential Systems with Time-Varying Couplings. Abstract and Applied Analysis, 2013, 2013, 1-15.	0.7	4
107	Optimizing Pinned Nodes to Maximize the Convergence Rate of Multiagent Systems with Digraph Topologies. Complexity, 2019, 2019, 1-12.	1.6	4
108	On Convergence of the NIC Algorithm for Subspace Computation. IEEE Transactions on Signal Processing, 2004, 52, 1112-1115.	5.3	3

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109	Recently, there are quite a few papers discussing delayed dynamical system with time-varying delays. <i>Neural Networks</i> , 2005, 18, 1006-1007.	5.9	3
110	Achieving cluster consensus in continuous-time networks of multi-agents with adapted inputs. , 2012, , .		2
111	Delay-Dependent Criteria for Global Stability of Delayed Neural Network System. <i>Lecture Notes in Computer Science</i> , 2004, , 38-43.	1.3	2
112	Approximation capability to functions of several variables, nonlinear functionals and operators by radial basis function neural networks. , 0, , .		1
113	Approximation to functions of several variables by superpositions of functions of fewer variables. <i>Science Bulletin</i> , 1997, 42, 351-352.	1.7	1
114	Capability of neural networks in computing the outputs of dynamic systems with inputs defined on the whole space. <i>Science in China Series D: Earth Sciences</i> , 1998, 41, 366-371.	0.9	1
115	Stability analysis OS discrete-time recurrently connected neural network. , 0, , .		1
116	Global Convergent Dynamics of Delayed Neural Networks. <i>Understanding Complex Systems</i> , 2009, , 197-262.	0.6	1
117	Dynamical behaviors of recurrently connected neural networks and linearly coupled networks with discontinuous right-hand sides. <i>Frontiers of Electrical and Electronic Engineering</i> , 2012, 7, 32-48.	0.5	1
118	Cluster consensus of networks of second-order multi-agent systems with inter-cluster non-identical inputs. , 2013, , .		1
119	Synchronization analysis of coupled differential systems with time-varying couplings. , 2013, , .		1
120	New method on the complete stability of delayed cellular neural networks. , 2014, , .		1
121	Event-triggered stabilization of coupled dynamical systems with fast Markovian switching. , 2016, , .		1
122	Centralized event-triggered control for linear multi-agent systems. , 2016, , .		1
123	Pinning consensus in networks with time-varying topology and event-triggered diffusions via impulsive control. , 2016, , .		1
124	Finite-time synchronization for nonlinear multi-agent system with directed structure by iterative learning control. , 2017, , .		1
125	Event-triggered scheduling for pinning networks of coupled dynamical systems under stochastically fast switching. <i>IET Control Theory and Applications</i> , 2021, 15, 1673-1685.	2.1	1
126	Dynamical Behaviors of a Large Class of Delayed Differential Systems with Discontinuous Right-Hand Side. <i>Lecture Notes in Computer Science</i> , 2006, , 379-386.	1.3	1



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127	Multistability of Neural Networks with a Class of Activation Functions. Lecture Notes in Computer Science, 2009, , 323-332.	1.3	1
128	Some queries on "Comments on 'Approximation capability in $C(\mathbb{R}^n)$ by multilayer feedforward networks and related problems". IEEE Transactions on Neural Networks, 2001, 12, 1262-1263.	4.2	0
129	Stability analysis of blind signals separation algorithms. , 0, , .		0
130	The modified natural power method for principal component computation. Frontiers of Mathematics in China, 2006, 1, 234-251.	0.7	0
131	Delayed neural networks with multistable almost periodic solutions. , 2009, , .		0
132	Stability of Nonnegative Periodic Solutions of High-Ordered Neural Networks. Lecture Notes in Computer Science, 2013, , 174-180.	1.3	0
133	Complete stability control on the high-order neural networks. , 2016, , .		0
134	Quasi-synchronization of linearly coupled dynamical networks with directed structure via decentralized event-triggered diffusions. , 2016, , .		0
135	On second-order synchronization protocols of multi-agent systems. , 2017, , .		0