

Chai Wah Wu

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.

101
papers

4,240
citations

31
h-index

64
g-index

119
ext. papers

4,885
ext. citations

2
avg, IF

5.85
L-index

#	Paper	IF	Citations
101	Synchronization in Dynamical Systems Coupled via Multiple Directed Networks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1660-1664	3.5	4
100	Control Localization in Networks of Dynamical Systems Connected via a Weighted Tree. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 3030-3036	7.3	4
99	A Simple Proof of a Generalized Cauchy-Binet Theorem. <i>American Mathematical Monthly</i> , 2016 , 123, 928	0.3	1
98	Geršgorin variations IV: A left eigenvector approach. <i>Linear Algebra and Its Applications</i> , 2016 , 498, 136-149	4.9	1
97	Graphs whose normalized Laplacian matrices are separable as density matrices in quantum mechanics. <i>Discrete Mathematics</i> , 2016 , 339, 1377-1381	0.7	3
96	Synchronization in Directed Complex Networks Using Graph Comparison Tools. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 1185-1194	3.9	23
95	On the Control of Epidemic-Like Stochastic Processes with Time-Varying Behavior?. <i>Performance Evaluation Review</i> , 2015 , 43, 78-80	0.4	1
94	Pigeonholes and Repunits. <i>American Mathematical Monthly</i> , 2014 , 121, 529	0.3	1
93	Coupling Strength Allocation for Synchronization in Complex Networks Using Spectral Graph Theory. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 1520-1530	3.9	25
92	Hybrid halftoning using direct multi-bit search (DMS) screen algorithm 2014 ,		1
91	NONLINEAR ELECTRONICS LABORATORY (NOEL): A REMINISCENCE 2013 , 124-134		1
90	New spectral graph theoretic conditions for synchronization in directed complex networks 2013 ,		2
89	A GPU based implementation of direct multi-bit search (DMS) screen algorithm 2013 ,		3
88	[From the Guest Editors]. <i>IEEE Circuits and Systems Magazine</i> , 2013 , 13, 4-6	3.2	1
87	Direct binary search (DBS) algorithm with constraints 2013 ,		2
86	Control of Networks of Coupled Dynamical Systems. <i>Understanding Complex Systems</i> , 2013 , 23-50	0.4	3
85	A GPU implementation of color digital halftoning using the Direct Binary Search algorithm 2012 ,		2

84	Direct multi-bit search (DMS) screen algorithm 2012 ,		6
83	The optimality of the online greedy algorithm in carpool and chairman assignment problems. <i>ACM Transactions on Algorithms</i> , 2011 , 7, 1-22	1.2	8
82	GPU-enabled parallel processing for image halftoning applications 2011 ,		5
81	Can stubbornness or gullibility lead to faster consensus? A study of various strategies for reaching consensus in a model of the naming game 2011 ,		1
80	On control of networks of dynamical systems 2010 ,		3
79	Incentivized Peer-Assisted Streaming for On-Demand Services. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010 , 21, 1354-1367	3.7	23
78	Non-intrusive Adaptive Multi-media Routing in Peer-to-Peer Multi-party Video Conferencing 2010 ,		1
77	On graphs whose Laplacian matrix's multipartite separability is invariant under graph isomorphism. <i>Discrete Mathematics</i> , 2010 , 310, 2811-2814	0.7	6
76	Cellular wave computing via nanoscale chip architectures. <i>International Journal of Circuit Theory and Applications</i> , 2010 , 38, 883-884	2	
75	Performance study of peer-to-peer video streaming on complex networks 2009 ,		1
74	Application of halftoning algorithms to location dependent sensor placement 2009 ,		2
73	Multipartite Separability of Laplacian Matrices of Graphs. <i>Electronic Journal of Combinatorics</i> , 2009 , 16,	1.1	7
72	PACTS: A Service Oriented Architecture for Real-Time Peer-Assisted Content Delivery Service 2008 ,		2
71	Localization of effective pinning control in complex networks of dynamical systems 2008 ,		2
70	On the relationship between pinning control effectiveness and graph topology in complex networks of dynamical systems. <i>Chaos</i> , 2008 , 18, 037103	3.3	41
69	Location dependent heuristics for sensor coverage planning 2008 ,		2
68	On some properties of contracting matrices. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 2509-2523	0.9	2
67	Conditions for weak ergodicity of inhomogeneous Markov chains. <i>Statistics and Probability Letters</i> , 2008 , 78, 3082-3085	0.6	14

66	Topology design for fast convergence of network consensus algorithms 2007 ,		8
65	Synchronization in Complex Networks of Nonlinear Dynamical Systems 2007 ,		228
64	Synchronization and convergence of linear dynamics in random directed networks. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1207-1210	5.9	158
63	Conditions for separability in generalized Laplacian matrices and diagonally dominant matrices as density matrices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 351, 18-22	2.3	16
62	A unifying proof of global asymptotical stability of neural networks with delay. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2005 , 52, 181-184		6
61	Algebraic connectivity of directed graphs. <i>Linear and Multilinear Algebra</i> , 2005 , 53, 203-223	0.7	92
60	Synchronization in arrays of coupled nonlinear systems with delay and nonreciprocal time-varying coupling. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2005 , 52, 282-286		113
59	Synchronization in networks of nonlinear dynamical systems coupled via a directed graph. <i>Nonlinearity</i> , 2005 , 18, 1057-1064	1.7	203
58	Fundamentals of Dynamic Decentralized Optimization in Autonomic Computing Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 204-218	0.9	12
57	On bounds of extremal eigenvalues of irreducible and m-reducible matrices. <i>Linear Algebra and Its Applications</i> , 2005 , 402, 29-45	0.9	41
56	On Rayleigh-Bitz ratios of a generalized Laplacian matrix of directed graphs. <i>Linear Algebra and Its Applications</i> , 2005 , 402, 207-227	0.9	43
55	Synchronizability of networks of chaotic systems coupled via a graph with a prescribed degree sequence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 346, 281-287	2.3	24
54	Digital watermarking and steganography via overlays of halftone images 2004 , 5561, 152		10
53	Perturbation of coupling matrices and its effect on the synchronizability in arrays of coupled chaotic systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 495-503	2.3	65
52	Synchronization in coupled arrays of chaotic oscillators with nonreciprocal coupling. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003 , 50, 294-297		56
51	Multiple images viewable on twisted-nematic mode liquid-crystal displays. <i>IEEE Signal Processing Letters</i> , 2003 , 10, 225-227	3.2	6
50	On nonlinear dynamical systems topologically conjugate to jerky motion via a linear transformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002 , 296, 105-108	2.3	4
49	ON THREE OSCILLATOR UNIVERSAL PROBES FOR DETERMINING SYNCHRONIZATION IN ARRAYS OF COUPLED OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002 , 12, 2233-2238	2	2

48	Multimedia Data Hiding and Authentication via Halftoning and Coordinate Projection. <i>Eurasip Journal on Advances in Signal Processing</i> , 2002 , 2002, 1	1.9	12
47	. <i>IEEE Transactions on Multimedia</i> , 2002 , 4, 385-393	6.6	44
46	Synchronization in Coupled Chaotic Circuits and Systems. <i>World Scientific Series on Nonlinear Science, Series A</i> , 2002 ,	3.3	75
45	Synchronization in arrays of coupled nonlinear systems: passivity, circle criterion, and observer design. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2001 , 48, 1257-1261		88
44	SYNCHRONIZATION IN ARRAYS OF CHAOTIC CIRCUITS COUPLED VIA DYNAMIC COUPLING ELEMENTS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2000 , 10, 819-827	2	2
43	Graph coloring via synchronization of coupled oscillators. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1998 , 45, 974-978		21
42	Torus-doubling bifurcations in four mutually coupled Chua's circuits. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1998 , 45, 186-193		14
41	Quantized sampling as sampling with uncertainty in time and amplitude. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1998 , 45, 458-463		1
40	JiffyTune: circuit optimization using time-domain sensitivities. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 1998 , 17, 1292-1309	2.5	33
39	Circuit optimization via adjoint Lagrangians 1997 ,		8
38	New results and measurements related to some tasks in object-oriented dynamic image coding using CNN universal chips. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 1997 , 7, 606-614	6.4	2
37	Communication Systems via Chaotic Signals from a Reconstruction Viewpoint. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1997 , 07, 275-286	2	62
36	A more rigorous proof of complete stability of cellular neural networks. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1997 , 44, 370-371		41
35	Master-slave synchronization and the Lorenz equations. <i>Chaos</i> , 1997 , 7, 392-394	3.3	22
34	Cryptography based on chaotic systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1997 , 44, 469-472		210
33	ON A VARIATION OF THE HUBERMAN-LUMER ADAPTIVE SCHEME. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996 , 06, 1397-1407	2	
32	ON THE GENERALITY OF THE UNFOLDED CHUA'S CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996 , 06, 801-832	2	14
31	Synchronization of Chua's circuits with time-varying channels and parameters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996 , 43, 862-868		34

30	On a conjecture regarding the synchronization in an array of linearly coupled dynamical systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996 , 43, 161-165		57
29	On linear topological conjugacy of Lur'e systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996 , 43, 158-161		4
28	SYNCHRONIZING NONAUTONOMOUS CHAOTIC SYSTEMS WITHOUT PHASE-LOCKING. <i>Journal of Circuits, Systems and Computers</i> , 1996 , 06, 227-241	0.9	5
27	LORENZ EQUATION AND CHUA'S EQUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996 , 06, 2443-2489	2	33
26	ADAPTIVE SYNCHRONIZATION OF CHUA'S OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996 , 06, 189-201	2	91
25	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1996 , 43, 234-246		31
24	CHUA'S EQUATION WITH CUBIC NONLINEARITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996 , 06, 2175-2222	2	69
23	ON ADAPTIVE SYNCHRONIZATION AND CONTROL OF NONLINEAR DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996 , 06, 455-471	2	146
22	FINDING PARAMETERS FOR CHUA'S OSCILLATOR WHICH IS TOPOLOGICALLY CONJUGATE TO SYSTEMS WITH A SCALAR NONLINEARITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1995 , 05, 895-899	2	1
21	ON THE GENERATION OF SCROLL WAVES IN A THREE-DIMENSIONAL DISCRETE ACTIVE MEDIUM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1995 , 05, 313-320	2	4
20	CHUA'S CIRCUIT: CHAOTIC PHENOMENA AND APPLICATIONS 1995 , 265-300		
19	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1995 , 42, 494-497		90
18	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1995 , 42, 775-778		83
17	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1995 , 42, 430-447		651
16	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1994 , 41, 420-424		13
15	A UNIFIED FRAMEWORK FOR SYNCHRONIZATION AND CONTROL OF DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1994 , 04, 979-998	2	242
14	Chua's oscillator: A compendium of chaotic phenomena. <i>Journal of the Franklin Institute</i> , 1994 , 331, 705-741		42
13	A SIMPLE WAY TO SYNCHRONIZE CHAOTIC SYSTEMS WITH APPLICATIONS TO SECURE COMMUNICATION SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993 , 03, 1619-1627	2	338

12	SPREAD SPECTRUM COMMUNICATION THROUGH MODULATION OF CHAOS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993 , 03, 469-477	2	217
11	DIGITAL SIGNAL PROCESSOR-BASED INVESTIGATION OF CHUA'S CIRCUIT FAMILY. <i>Journal of Circuits, Systems and Computers</i> , 1993 , 03, 269-292	0.9	1
10	INTRODUCTION TO EXPERIMENTAL CHAOS USING CHUA'S CIRCUIT. <i>World Scientific Series on Nonlinear Science, Series B</i> , 1993 , 59-89	0.3	13
9	Properties of admissible symbolic sequences in a second-order digital filter with overflow non-linearity. <i>International Journal of Circuit Theory and Applications</i> , 1993 , 21, 299-307	2	27
8	DIGITAL SIGNAL PROCESSOR-BASED INVESTIGATION OF CHUA'S CIRCUIT FAMILY. <i>World Scientific Series on Nonlinear Science, Series B</i> , 1993 , 769-792	0.3	
7	On the universe of stable cellular neural networks. <i>International Journal of Circuit Theory and Applications</i> , 1992 , 20, 497-517	2	85
6			1
5	Comparative studies of load balancing with control and optimization techniques		6
4	Error bounds for error diffusion and related digital halftoning algorithms		3
3	Synchronization in arrays of chaotic circuits coupled via hypergraphs: static and dynamic coupling		1
2	Fuzzy cellular neural networks: theory		15
1	On generalizations of Schur's inequality on sums of products of differences of real numbers. <i>Linear and Multilinear Algebra</i> , 1-17	0.7	