Jun-An Lu

List of Publications by Year
in descending order

69 papers	3,325 citations	201575 27 h-index	143943 57 g-index
69 all docs	69 docs citations	69 times ranked	1458 citing authors

#	Article	IF	Citations
1	Adaptive Synchronization of an Uncertain Complex Dynamical Network. IEEE Transactions on Automatic Control, 2006, 51, 652-656.	3.6	598
2	Pinning adaptive synchronization of a general complex dynamical network. Automatica, 2008, 44, 996-1003.	3.0	519
3	Structure identification of uncertain general complex dynamical networks with time delay. Automatica, 2009, 45, 1799-1807.	3.0	241
4	Topology identification of weighted complex dynamical networks. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 481-491.	1.2	143
5	Compressive-Sensing-Based Structure Identification for Multilayer Networks. IEEE Transactions on Cybernetics, 2018, 48, 754-764.	6.2	129
6	Synchronizability of Duplex Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 206-210.	2.2	122
7	Master stability functions for complete, intralayer, and interlayer synchronization in multiplex networks of coupled RÃ¶ssler oscillators. Physical Review E, 2019, 99, 012304.	0.8	98
8	Finiteâ€time stabilization of complex dynamical networks via optimal control. Complexity, 2016, 21, 417-425.	0.9	79
9	Synchronization: An Obstacle to Identification of Network Topology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 310-314.	2.2	77
10	Pinning synchronization of delayed neural networks. Chaos, 2008, 18, 043111.	1.0	75
11	Identifying Topologies of Complex Dynamical Networks With Stochastic Perturbations. IEEE Transactions on Control of Network Systems, 2016, 3, 379-389.	2.4	74
12	Pinning Synchronization of Multiplex Delayed Networks With Stochastic Perturbations. IEEE Transactions on Cybernetics, 2019, 49, 4262-4270.	6.2	58
13	Statistical and network analysis of 1212 COVID-19 patients in Henan, China. International Journal of Infectious Diseases, 2020, 95, 391-398.	1.5	53
14	Topology identification of complex dynamical networks. Chaos, 2010, 20, 023119.	1.0	52
15	Recovering Structures of Complex Dynamical Networks Based on Generalized <newline/>Outer Synchronization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 3216-3224.	3.5	51
16	Identifying the Topology of a Coupled FitzHughâ€“Nagumo Neurobiological Network via a Pinning Mechanism. IEEE Transactions on Neural Networks, 2009, 20, 1679-1684.	4.8	50
17	Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 786-796.	5.9	45
18	Detecting the topologies of complex networks with stochastic perturbations. Chaos, 2011, 21, 043129.	1.0	43

#	Article	IF	Citations
19	Synchronizability of two-layer networks. European Physical Journal B, 2015, 88, 1.	0.6	42
20	Node Importance in Controlled Complex Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 437-441.	2.2	39
21	A New Method for Topology Identification of Complex Dynamical Networks. IEEE Transactions on Cybernetics, 2021, 51, 2224-2231.	6.2	38
22	Consensus of second-order multi-agent systems with nonlinear dynamics and time delay. Nonlinear Dynamics, 2014, 78, 495-503.	2.7	36
23	Pinning a Complex Delayed Dynamical Network to a Homogenous Trajectory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 514-518.	2.2	35
24	Driving-based generalized synchronization in two-layer networks via pinning control. Chaos, 2015, 25, 113104.	1.0	35
25	Topology Identification in Two-Layer Complex Dynamical Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 538-548.	4.1	33
26	Synchronization in Directed Complex Networks Using Graph Comparison Tools. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1185-1194.	3.5	30
27	Bounded Synchronization of Heterogeneous Complex Dynamical Networks: A Unified Approach. IEEE Transactions on Automatic Control, 2021, 66, 1756-1762.	3.6	29
28	Identifying influential spreaders in artificial complex networks. Journal of Systems Science and Complexity, 2014, 27, 650-665.	1.6	28
29	Identifying partial topology of complex dynamical networks via a pinning mechanism. Chaos, 2018, 28, 043108.	1.0	27
30	Finite-Time Synchronization of Impulsive Dynamical Networks With Strong Nonlinearity. IEEE Transactions on Automatic Control, 2021, 66, 3550-3561.	3.6	26
31	Recovering network topologies via Taylor expansion and compressive sensing. Chaos, 2015, 25, 043102.	1.0	25
32	BIFURCATION ANALYSIS OF SYNCHRONIZED REGIONS IN COMPLEX DYNAMICAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250282.	0.7	24
33	Bifurcation Analysis of Synchronized Regions in Complex Dynamical Networks with Coupling Delay. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450011.	0.7	24
34	Cooperative spreading processes in multiplex networks. Chaos, 2016, 26, 065311.	1.0	24
35	Maximizing synchronizability of duplex networks. Chaos, 2018, 28, 013110.	1.0	24
36	Identifying structures of continuously-varying weighted networks. Scientific Reports, 2016, 6, 26649.	1.6	21

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37	Estimating the Region of Attraction on a Complex Dynamical Network. SIAM Journal on Control and Optimization, 2019, 57, 1189-1208.	1.1	20
38	The effect of behavior of wearing masks on epidemic dynamics. Nonlinear Dynamics, 2020, 101, 1995-2001.	2.7	18
39	GENERATING AN ASSORTATIVE NETWORK WITH A GIVEN DEGREE DISTRIBUTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 3495-3502.	0.7	17
40	Topology Identification of Multiplex Delayed Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 290-294.	2.2	17
41	A SIMPLE YET COMPLEX ONE-PARAMETER FAMILY OF GENERALIZED LORENZ-LIKE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250116.	0.7	16
42	Topology Identification of Multilink Complex Dynamical Networks via Adaptive Observers Incorporating Chaotic Exosignals. IEEE Transactions on Cybernetics, 2022, 52, 6255-6268.	6.2	16
43	Impact of node dynamics parameters on topology identification of complex dynamical networks. Nonlinear Dynamics, 2013, 73, 1081-1097.	2.7	15
44	Topology identification of complex networks from noisy time series using ROC curve analysis. Nonlinear Dynamics, 2014, 75, 761-768.	2.7	15
45	Projectively lag synchronization and uncertain parameters identification of a new hyperchaotic system. Nonlinear Dynamics, 2010, 62, 427-435.	2.7	14
46	Cluster synchronization: From single-layer to multi-layer networks. Chaos, 2019, 29, 123120.	1.0	13
47	Synchronization of Complex Networks With Nondifferentiable Time-Varying Delay. IEEE Transactions on Cybernetics, 2022, 52, 3342-3348.	6.2	13
48	Adaptive Diffusion Processes of Time-Varying Local Information on Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1592-1596.	2.2	11
49	Synchronizability of double-layer dumbbell networks. Chaos, 2021, 31, 073101.	1.0	11
50	Bidirectionally coupled synchronization of the generalized Lorenz systems. Journal of Systems Science and Complexity, 2011, 24, 433-448.	1.6	10
51	Bifurcation behaviors of synchronized regions in logistic map networks with coupling delay. Chaos, 2015, 25, 033101.	1.0	10
52	Impulsive control induced effects on dynamics of single andÂcoupled ODE systems. Nonlinear Dynamics, 2010, 59, 101-111.	2.7	9
53	Cluster Synchronization of Two-Layer Networks via Aperiodically Intermittent Pinning Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1338-1342.	2.2	7
54	Superdiffusion criteria on duplex networks. Chaos, 2021, 31, 073108.	1.0	7

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55	Generalized Outer Synchronization between Complex Networks with Unknown Parameters. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.3	5
56	Reconstruction of complex networks with delays and noise perturbation based on generalized outer synchronization. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 225101.	0.7	5
57	Phase synchronization on spatially embedded duplex networks with total cost constraint. Chaos, 2018, 28, 093101.	1.0	5
58	Synchronizability of two-layer correlation networks. Chaos, 2021, 31, 103124.	1.0	5
59	A Topological Mechanism of Superdiffusion on Duplex Networks. IEEE Transactions on Control of Network Systems, 2023, 10, 556-563.	2.4	5
60	Estimating the Region of Attraction on Controlled Complex Networks With Time-Varying Delay. IEEE Transactions on Automatic Control, 2023, 68, 516-523.	3.6	3
61	Adaptive Exponential Synchronization of Complex Networks With Nondifferentiable Time-Varying Delay. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8124-8130.	7.2	3
62	Impulsive synchronization on complex networks of nonlinear dynamical systems. , 2010, , .		2
63	Topology identification of complex dynamical networks based on generalized outer synchronization. , 2014, , .		2
64	Robust synchronization of weighted complex dynamical networks. , 2009, , .		1
65	Graph Comparison and Coupling Strength Allocation for Synchronization in Multiplex Networks. , 2018, , .		1
66	Optimizing Pinning Control of Directed Networks Using Spectral Graph Theory. Lecture Notes in Computer Science, 2018, , 59-70.	1.0	1
67	The combination of targeted vaccination and ring vaccination. Chaos, 2021, 31, 063108.	1.0	1
68	Some notes for synchronization in complex networks. , 2014, , .		0
69	A Weighted Multi-Local-World Network Evolving Model and Its Application in Software Network Modeling. Mathematical Problems in Engineering, 2018, 2018, 1-9.	0.6	0