Xiang Li

List of Publications by Citations

161	3,966	30	59
papers	citations	h-index	g-index
197	4,736	3.6	6.09
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
161	Pinning a complex dynamical network to its equilibrium. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2004**, 51, 2074-2087		673
160	Roles of mixing patterns in cooperation on a scale-free networked game. *Physical Review E*, **2007**, 76, 027101	2.4	266
159	A local-world evolving network model. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 328, 274-286	3.3	264
158	Synchronization and desynchronization of complex dynamical networks: an engineering viewpoint. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2003**, 50, 1381-1390		192
157	Complexity and synchronization of the World trade Web. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 328, 287-296	3.3	161
156	Spatial epidemiology of networked metapopulation: an overview. *Science Bulletin*, **2014**, 59, 3511-3522		137
155	Global stabilization of complex networks with digraph topologies via a local pinning algorithm. *Automatica*, **2010**, 46, 116-121	5.7	106
154	How human location-specific contact patterns impact spatial transmission between populations?. *Scientific Reports*, **2013**, 3, 1468	4.9	79
153	Flocking of Multi-Agent Systems Via Model Predictive Control Based on Position-Only Measurements. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 377-385	11.9	72
152	Control and Flocking of Networked Systems via Pinning. *IEEE Circuits and Systems Magazine*, **2010**, 10, 83-91	3.2	64
151	Evolution of scaling emergence in large-scale spatial epidemic spreading. *PLoS ONE*, **2011**, 6, e21197	3.7	60
150	Consensus of sampled-data multi-agent networking systems via model predictive control. *Automatica*, **2013**, 49, 2502-2507	5.7	59
149	Asynchronous Consensus of Multiple Double-Integrator Agents With Arbitrary Sampling Intervals and Communication Delays. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2015**, 62, 2301-2311	3.9	58
148	Controlling the spreading in small-world evolving networks: stability, oscillation, and topology. *IEEE Transactions on Automatic Control*, **2006**, 51, 534-540	5.9	53
147	Identifying Spatial Invasion of Pandemics on Metapopulation Networks Via Anatomizing Arrival History. *IEEE Transactions on Cybernetics*, **2016**, 46, 2782-2795	10.2	48
146	Towards a temporal network analysis of interactive WiFi users. *Europhysics Letters*, **2012**, 98, 68002	1.6	48
145	Synchronization and chimera states of frequency-weighted Kuramoto-oscillator networks. *Physical Review E*, **2011**, 83, 066214	2.4	45

144	Chaotifying linear Elman networks. *IEEE Transactions on Neural Networks*, **2002**, 13, 1193-9		44
143	Spectral Analysis of Epidemic Thresholds of Temporal Networks. *IEEE Transactions on Cybernetics*, **2020**, 50, 1965-1977	10.2	44
142	Human Interactive Patterns in Temporal Networks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2015**, 45, 214-222	7.3	43
141	Generalized local-world models for weighted networks. *Physical Review E*, **2006**, 73, 056109	2.4	43
140	When Reputation Enforces Evolutionary Cooperation in Unreliable MANETs. *IEEE Transactions on Cybernetics*, **2015**, 45, 2190-201	10.2	39
139	. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 241-245	3.5	37
138	Structural controllability and controlling centrality of temporal networks. *PLoS ONE*, **2014**, 9, e94998	3.7	37
137	Consensus in a heterogeneous influence network. *Physical Review E*, **2006**, 74, 037101	2.4	34
136	Structural Controllability of Temporally Switching Networks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2016**, 63, 1771-1781	3.9	32
135	Synchronizing a Weighted and Weakly-Connected Kuramoto-Oscillator Digraph With a Pacemaker. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2015**, 62, 899-905	3.9	31
134	Detection and prediction of the onset of human ventricular fibrillation: an approach based on complex network theory. *Physical Review E*, **2011**, 84, 062901	2.4	31
133	Estimating the value of containment strategies in delaying the arrival time of an influenza pandemic: a case study of travel restriction and patient isolation. *Physical Review E*, **2012**, 86, 032901	2.4	31
132	Transition to chaos in complex dynamical networks. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 338, 367-378	3.3	30
131	Outdoor flocking of quadcopter drones with decentralized model predictive control. *ISA Transactions*, **2017**, 71, 84-92	5.5	29
130	THE IMPACT OF HUMAN LOCATION-SPECIFIC CONTACT PATTERN ON THE SIR EPIDEMIC TRANSMISSION BETWEEN POPULATIONS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2013**, 23, 1350095	2	29
129	Distributed Model Predictive Consensus With Self-Triggered Mechanism in General Linear Multiagent Systems. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 3987-3997	11.9	29
128	Comment on Network analysis of human heartbeat dynamics[Appl. Phys. Lett. 96, 073703 (2010)]. *Applied Physics Letters*, **2010**, 96, 266101	3.4	27
127	Phase synchronization in complex networks with decayed long-range interactions. *Physica D: Nonlinear Phenomena*, **2006**, 223, 242-247	3.3	27

126	Reconstruction of stochastic temporal networks through diffusive arrival times. *Nature Communications*, **2017**, 8, 15729	17.4	26
125	Largest Laplacian eigenvalue predicts the emergence of costly punishment in the evolutionary ultimatum game on networks. *Physical Review E*, **2009**, 80, 066101	2.4	26
124	Stability and bifurcation of disease spreading in complex networks. *International Journal of Systems Science*, **2004**, 35, 527-536	2.3	26
123	On synchronous preference of complex dynamical networks. *Physica A: Statistical Mechanics and Its Applications*, **2005**, 355, 657-666	3.3	26
122	Heterogeneous cooperative leadership structure emerging from random regular graphs. *Chaos*, **2019**, 29, 103103	3.3	25
121	Exponential synchronization and phase locking of a multilayer Kuramoto-oscillator system with a pacemaker. *Neurocomputing*, **2018**, 308, 129-137	5.4	24
120	Temporal dynamics and impact of event interactions in cyber-social populations. *Chaos*, **2013**, 23, 013131	3.3	24
119	Weighted Evolving Networks with Self-organized Communities. *Communications in Theoretical Physics*, **2008**, 50, 261-266	2.4	24
118	Epidemics and immunization on Euclidean distance preferred small-world networks. *Physica A: Statistical Mechanics and Its Applications*, **2007**, 380, 684-690	3.3	23
117	On the topology of the world exchange arrangements web. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 343, 573-582	3.3	23
116	Towards a snowdrift game optimization to vertex cover of networks. *IEEE Transactions on Cybernetics*, **2013**, 43, 948-56	10.2	22
115	A new community-based evolving network model. *Physica A: Statistical Mechanics and Its Applications*, **2007**, 384, 725-732	3.3	21
114	Synchronization in weighted complex networks: Heterogeneity and synchronizability. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 370, 381-389	3.3	21
113	Epidemic prevalence on random mobile dynamical networks: individual heterogeneity and correlation. *European Physical Journal B*, **2010**, 75, 319-326	1.2	20
112	Cooperative dynamics of snowdrift game on spatial distance-dependent small-world networks. *European Physical Journal B*, **2006**, 54, 369-373	1.2	20
111	Designing Socially-Optimal Rating Protocols for Crowdsourcing Contest Dilemma. *IEEE Transactions on Information Forensics and Security*, **2017**, 12, 1330-1344	8	19
110	Finite-Time and Fixed-Time Synchronization of Kuramoto-Oscillator Network With Multiplex Control. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 863-873	4	18
109	Data Based Reconstruction of Duplex Networks. *SIAM Journal on Applied Dynamical Systems*, **2020**, 19, 124-150	2.8	17

108	The law of evolutionary dynamics in community-structured population. *Journal of Theoretical Biology*, **2012**, 306, 1-6	2.3	17
107	Simple Recurrent Neural Network-Based Adaptive Predictive Control for Nonlinear Systems. *Asian Journal of Control*, **2008**, 4, 231-239	1.7	17
106	Some Recent Advances in Complex Networks Synchronization. *Studies in Computational Intelligence* , **2009**, 3-16	0.8	17
105	Bridging Time Series Dynamics and Complex Network Theory with Application to Electrocardiogram Analysis. *IEEE Circuits and Systems Magazine*, **2012**, 12, 33-46	3.2	16
104	Distributed Model Predictive Consensus of Heterogeneous Time-Varying Multi-Agent Systems: With and Without Self-Triggered Mechanism. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 5358-5368	3.9	16
103	Structural Controllability of Temporal Networks with a Single Switching Controller. *PLoS ONE*, **2017** , 12, e0170584	3.7	15
102	Moderate intra-group bias maximizes cooperation on interdependent populations. *PLoS ONE*, **2014**, 9, e88412	3.7	15
101	Distributed Consensus of Heterogeneous Linear Time-Varying Systems on UAVs USVs Coordination. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 1264-1268	3.5	15
100	Mixed evolutionary strategies imply coexisting opinions on networks. *Physical Review E*, **2008**, 77, 016108	2.4	14
99	Stability of Synchronous Solutions in a Directed Kuramoto-Oscillator Network With a Pacemaker. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2017**, 64, 1222-1226	3.5	13
98	Consensus in Networked Multiagent Systems With Stochastic Sampling. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2017**, 64, 982-986	3.5	13
97	Asymmetric Game: A Silver Bullet to Weighted Vertex Cover of Networks. *IEEE Transactions on Cybernetics*, **2018**, 48, 2994-3005	10.2	13
96	Generating chaos by an Elman network. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2001**, 48, 1126-1131		13
95	Pacemaker-Based Global Synchronization of Kuramoto Oscillators via Distributed Control. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 1768-1772	3.5	12
94	Minimizing Social Cost of Vaccinating Network SIS Epidemics. *IEEE Transactions on Network Science and Engineering*, **2018**, 5, 326-335	4.9	12
93	When susceptible-infectious-susceptible contagion meets time-varying networks with identical infectivity. *Europhysics Letters*, **2014**, 108, 28006	1.6	12
92	Uniform synchronous criticality of diversely random complex networks. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 360, 629-636	3.3	12
91	Frequency Network Analysis of Heart Rate Variability for Obstructive Apnea Patient Detection. *IEEE Journal of Biomedical and Health Informatics*, **2018**, 22, 1895-1905	7.2	11

90	Self-triggered distributed model predictive control for flocking of multi-agent systems. *IET Control Theory and Applications*, **2018**, 12, 2441-2448	2.5	11
89	Formation of Generic UAVs-USVs System Under Distributed Model Predictive Control Scheme. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3123-3127	3.5	10
88	Global Frequency Synchronization of Complex Power Networks Via Coordinating Switching Control. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2019**, 66, 3123-3133	3.9	10
87	Adaptive event-triggered distributed model predictive control for multi-agent systems. *Systems and Control Letters*, **2019**, 134, 104531	2.4	10
86	Characterizing large-scale population's indoor spatio-temporal interactive behaviors **2012**,		10
85	On the stability of epidemic spreading in small-world networks: how prompt the recovery should be?. *International Journal of Systems Science*, **2007**, 38, 401-411	2.3	10
84	Incentive Mechanism for Macrotasking Crowdsourcing: A Zero-Determinant Strategy Approach. *IEEE Internet of Things Journal*, **2019**, 6, 8589-8601	10.7	9
83	Towards the role of social connectivity and aspiration level on evolutionary game. *European Physical Journal B*, **2013**, 86, 1	1.2	9
82	Cooperation and distributed optimization for the unreliable wireless game with indirect reciprocity. *Science China Information Sciences*, **2017**, 60, 1	3.4	9
81	Identifying familiar strangers in human encounter networks. *Europhysics Letters*, **2016**, 116, 18006	1.6	9
80	The Roles of Input Matrix and Nodal Dynamics in Network Controllability. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1764-1774	4	8
79	Understanding the User Behavior of Foursquare: A Data-Driven Study on a Global Scale. *IEEE Transactions on Computational Social Systems*, **2020**, 7, 1019-1032	4.5	7
78	Modelling temporal networks of human face-to-face contacts with public activity and individual reachability. *European Physical Journal B*, **2016**, 89, 1	1.2	7
77	Evolutionary origin of asymptotically stable consensus. *Scientific Reports*, **2014**, 4, 4590	4.9	7
76	Flocking of Discrete-time Multi-Agent Systems with Predictive Mechanisms. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 5669-5674		7
75	The role of degree-weighted couplings in the synchronous onset of Kuramoto oscillator networks. *Physica A: Statistical Mechanics and Its Applications*, **2008**, 387, 6624-6630	3.3	7
74	. *IEEE Circuits and Systems Magazine*, **2020**, 20, 46-67	3.2	7
73	Cooperative Formation of Self-Propelled Vehicles With Directed Communications. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 315-319	3.5	7

72	User Behavior Analysis and Video Popularity Prediction on a Large-Scale VoD System. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2018**, 14, 1-24	3.4	6
71	Self-triggered robust output feedback model predictive control of constrained linear systems **2017**,		6
70	Uncovering Spatial Invasion on Metapopulation Networks with SIR Epidemics. *IEEE Transactions on Network Science and Engineering*, **2019**, 6, 788-800	4.9	5
69	Characterizing Bursts of Aggregate Pairs With Individual Poissonian Activity and Preferential Mobility. *IEEE Communications Letters*, **2015**, 19, 1225-1228	3.8	5
68	Global Stochastic Synchronization of Kuramoto-Oscillator Networks With Distributed Control. *IEEE Transactions on Cybernetics*, **2020**,	10.2	5
67	Pinning a complex network through the betweenness centrality strategy **2009**,		5
66	Synchronization in Triangled Complex Networks. *Communications in Theoretical Physics*, **2006**, 45, 955-960	2.4	5
65	Transition from regularity to Li□orke chaos in coupled logistic networks. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 338, 472-478	2.3	5
64	How the weak and strong links affect the evolution of prisoner's dilemma game. *New Journal of Physics*, **2019**, 21, 015002	2.9	5
63	Temporal Stable Community in Time-Varying Networks. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 1508-1520	4.9	5
62	Robust Distributed Model Predictive Control Based Consensus of General Linear Multi-Agent Systems **2019**,		4
61	Toward optimizing control signal paths in functional brain networks. *Chaos*, **2019**, 29, 103144	3.3	4
60	Towards a graphic tool of structural controllability of temporal networks **2014**,		4
59	Perceptron Implementation of Triple-Valued Logic Operations. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2011**, 58, 590-594	3.5	4
58	Perception Effect in Evolutionary Vaccination Game Under Prospect-Theoretic Approach. *IEEE Transactions on Computational Social Systems*, **2020**, 7, 329-338	4.5	4
57	Decentralized flocking of multi-agent system based on MPC with obstacle/collision avoidance **2019** ,		4
56	Interlayer impacts to deep-coupling dynamical networks: A snapshot of equilibrium stability. *Chaos*, **2019**, 29, 073104	3.3	3
55	Zero-Determinant Strategy for Cooperation Enforcement in Crowdsourcing **2017**,		3

54	Inferring spatial transmission of epidemics in networked metapopulations **2015**,		3
53	On Estimating Spatial Epidemic Parameters of a Simplified Metapopulation Model. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 383-388		3
52	Discovering and Predicting Temporal Patterns of WiFi-Interactive Social Populations **2014**, 99-122		3
51	Self-triggered consensus of multi-agent systems via model predictive control. *IFAC-PapersOnLine*, **2016**, 49, 19-24	0.7	3
50	On Successive Lag Synchronization of a Dynamical Network With Delayed Couplings. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 1151-1162	4	3
49	Epidemic Threshold in Temporal Multiplex Networks With Individual Layer Preference. *IEEE Transactions on Network Science and Engineering*, **2021**, 8, 814-824	4.9	3
48	Towards Identifying and Predicting Spatial Epidemics on Complex Meta-population Networks. *Theoretical Biology*, **2017**, 129-160	0.2	2
47	Controllability of Deep-Coupling Dynamical Networks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 5211-5222	3.9	2
46	Vaccinating SIS epidemics in networks with zero-determinant strategy **2017**,		2
45	Asynchronous consensus of second-order multi-agent systems with aperiodic sampled-data **2015**,		2
44	A Data-driven inference algorithm for epidemic pathways using surveillance reports in 2009 outbreak of influenza A (H1N1) **2012**,		2
43	Bridge time series and complex networks with a frequency-degree mapping algorithm **2012**,		2
42	Spatial-spectral Terahertz Networks. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	2
41	Towards Structural Controllability of Temporal Complex Networks. *Understanding Complex Systems*, **2016**, 341-371	0.4	2
40	Vaccinating SIS epidemics under evolving perception in heterogeneous networks. *European Physical Journal B*, **2020**, 93, 185	1.2	2
39	Predicting spatial transmission at the early stage of epidemics on a networked metapopulation **2016**,		2
38	Towards identifying epidemic processes with interplay between complex networks and human populations **2016**,		2
37	Finite- Time Adaptive Synchronization of Drive-Response Two-Layer Networks **2018**,		2

36	Mining the rank of universities with Wikipedia. *Science China Information Sciences*, **2019**, 62, 1	3.4	1
35	Can multiple social ties help improve human location prediction?. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 525, 1276-1288	3.3	1
34	Community detector on symptom networks with applications to fatty liver disease. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 527, 121328	3.3	1
33	Guest Editorial Introduction to the Special Section on Network of Cyber-Social Networks: Modeling, Analysis, and Control. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 686-687	4.9	1
32	A multi-agent flocking system with communication delays via distributed model predictive control **2017**,		1
31	The functional regions in structural controllability of human functional brain networks **2017**,		1
30	Consensus of multiple double-integrators with aperiodic sampled-data and switching topology **2015**,		1
29	Cluster consensus in networks of agents with weighted cooperative-competitive interactions via nonlinear protocols **2015**,		1
28	Network Topologies: Basic Models and Properties **2015**, 103-136		1
27	On structural controllability of complex networks using polar placement **2014**,		1
26	Consensus in networked multi-agent systems via model predictive control with horizon one **2013**,		1
25	Assortative degree-mixing patterns inhibit behavioral diversity of a scale-free structured population in high-mutation situations. *Europhysics Letters*, **2010**, 89, 18006	1.6	1
24	EXTENDING LOCAL PASSIVITY THEORY AND HOPF BIFURCATION AT THE EDGE OF CHAOS IN OREGONATOR CNN. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250285	2	1
23	BIFURCATIONS IN A FREQUENCY-WEIGHTED KURAMOTO OSCILLATORS NETWORK. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250230	2	1
22	The study of epidemic spreading in a mobile multi-agent system **2008**,		1
21	Two Novel Methods to Enhance Network Synchronizability. *Communications in Theoretical Physics*, **2008**, 49, 1064-1068	2.4	1
20	A novel neural-net-based nonlinear adaptive control and application to the cross-direction deviations control of a polymer film spread line. *Chaos, Solitons and Fractals*, **2008**, 35, 808-813	9.3	1
19	Chaotic and periodic spreading dynamics in discrete small-world networks		1

18	Coevolution of opinion dynamics on evolving signed appraisal networks. *Automatica*, **2022**, 137, 110138	5.7	1
17	Inferring FOLLOW Relationship from Repost Relationship between Users on Sina Weibo. *IFAC-PapersOnLine*, **2020**, 53, 2874-2879	0.7	1
16	Bearing-Only Formation Control of Multi-Agent System Without Leader's Velocity Information. *IFAC-PapersOnLine*, **2020**, 53, 11044-11049	0.7	1
15	Epidemic spreading in time-varying networks with activity-driven infectivity **2019**,		1
14	Predicting Location Trajectories of Humans by Their Diverse Social Ties **2018**,		1
13	Network topology inference with estimated node importance. *Europhysics Letters*, **2021**, 134, 58001	1.6	0
12	The Kronecker-clique model for higher-order clustering coefficients. *Physica A: Statistical Mechanics and Its Applications*, **2021**, 582, 126269	3.3	0
11	Network Control **2015**, 319-342		
10	Internet: Topology and Modeling **2015**, 137-193		
9	Network Games **2015**, 257-287		
8	Network Synchronization **2015**, 289-318		
7	Brief Introduction to Other Topics **2015**, 343-361		
6	Epidemic Spreading Dynamics **2015**, 195-223		
5	The Emergence of Cooperative Leadership from Homogenous Random Networks. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 1977-1981		
4	The complex software network evolution of Java Development Kits: topological properties and design principles. *International Journal of Systems, Control and Communications*, **2009**, 1, 478	0.5	
3	ON SPREADING DYNAMICS IN DISCRETE SMALL-WORLD NETWORKS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 1107-1111		
2	Reliable Detection of Malignant Ventricular Arrhythmias Based on Complex Network Theory. *Lecture Notes in Computer Science*, **2013**, 196-205	0.9	
1	Evolving Nature of Human Contact Networks with Its Impact on Epidemic Processes. *Complexity*, **2021**, 2021, 1-13	1.6	