

Zhiyun Lin

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.

154 papers	4,026 citations	28 h-index	61 g-index
198 ext. papers	5,158 ext. citations	3.6 avg, IF	5.78 L-index

#	Paper	IF	Citations
154	Target-Value-Competition-Based Multi-agent Deep Reinforcement Learning Algorithm for Distributed Nonconvex Economic Dispatch. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	0
153	Distributed fixed-time resource allocation algorithm for the general linear multi-agent systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	1
152	Nonlinear Model Predictive Control of Single-Link Flexible-Joint Robot Using Recurrent Neural Network and Differential Evolution Optimization. <i>Electronics (Switzerland)</i> , 2021 , 10, 2426	2.6	3
151	An exponentially convergent distributed algorithm for resource allocation problem. <i>Asian Journal of Control</i> , 2021 , 23, 1072-1082	1.7	0
150	Reach almost sure consensus via L-norm group information. <i>European Journal of Control</i> , 2021 , 59, 207-215	2.5	0
149	Random grouping based resilient beamforming. <i>Automatica</i> , 2021 , 123, 109309	5.7	1
148	Distributed dynamic event-triggered algorithm with minimum inter-event time for multi-agent convex optimisation. <i>International Journal of Systems Science</i> , 2021 , 52, 1440-1451	2.3	4
147	. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
146	Distributed Event-Triggered Approach for Multi-Agent Formation Based on Cooperative Localization with Mixed Measurements. <i>Electronics (Switzerland)</i> , 2021 , 10, 2265	2.6	3
145	Bearing-only distributed localization: A unified barycentric approach. <i>Automatica</i> , 2021 , 133, 109834	5.7	3
144	Distributed algorithm for a finite time horizon resource allocation over a directed network. <i>IET Control Theory and Applications</i> , 2020 , 14, 1170-1182	2.5	1
143	Distributed dynamic event-triggered algorithm with positive minimum inter-event time for convex optimisation problem. <i>International Journal of Control</i> , 2020 , 1-8	1.5	2
142	Distributed Affine Formation Tracking Control of Multiple Fixed-Wing UAVs 2020 ,		3
141	Tight bound on parameter of surplus-based averaging algorithm over balanced digraphs. <i>International Journal of Control</i> , 2020 , 93, 1859-1866	1.5	3
140	Distributed optimization for economic power dispatch with event-triggered communication. <i>Asian Journal of Control</i> , 2020 , 22, 2412-2421	1.7	5
139	Distributed optimization algorithm for economic dispatch: A bisectional approach 2020 , 177-202		
138	Optimal Charging and Discharging Control of Plug-in Hybrid Electric Vehicles in a System-level Power Distribution Network. <i>Journal of Physics: Conference Series</i> , 2019 , 1304, 012012	0.3	1

137	Multi-Objective Optimal Charging Control of Plug-In Hybrid Electric Vehicles in Power Distribution Systems. <i>Energies</i> , 2019 , 12, 2563	3.1	7
136	Multi-Objective Optimization for Cyber-Physical-Social Systems: A Case Study of Electric Vehicles Charging and Discharging. <i>IEEE Access</i> , 2019 , 7, 76754-76767	3.5	11
135	Theory and Algorithms in Distributed Localization for Multi-Vehicle Networks Using Graph Laplacian Techniques 2019 , 319-333		1
134	On Active Disturbance Rejection Control for Path Following of Automated Guided Vehicle with Uncertain Velocities 2019 ,		4
133	A Distributed Algorithm with Event-Triggered Communication for Resource Allocation Problem 2019 ,		2
132	Integrated Relative Localization and Leader-Follower Formation Control. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 20-34	5.9	59
131	A Barycentric Coordinate-Based Approach to Formation Control Under Directed and Switching Sensing Graphs. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 1202-1215	10.2	25
130	Coordinate-free formation control of multi-agent systems using rooted graphs. <i>Systems and Control Letters</i> , 2018 , 119, 8-15	2.4	3
129	Application of online supervisory control of discrete-event systems to multi-robot warehouse automation. <i>Control Engineering Practice</i> , 2018 , 81, 97-104	3.9	11
128	Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 1-8	7.3	16
127	. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 2600-2612	4.8	49
126	Distributed localization with mixed measurements under switching topologies. <i>Automatica</i> , 2017 , 76, 251-257	5.7	13
125	Fast centralized integer resource allocation algorithm and its distributed extension over digraphs. <i>Neurocomputing</i> , 2017 , 270, 91-100	5.4	4
124	Distributed algorithm for dynamic economic power dispatch with energy storage in smart grids. <i>IET Control Theory and Applications</i> , 2017 , 11, 1813-1821	2.5	20
123	A new decentralized algorithm for optimal load shifting via electric vehicles 2017 ,		6
122	A barycentric coordinate based approach to three-dimensional distributed localization for wireless sensor networks 2017 ,		8
121	A Graph Laplacian Approach to Coordinate-Free Formation Stabilization for Directed Networks. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1269-1280	5.9	67
120	Quantification for the importance degree of engineering characteristics with a multi-level hierarchical structure in QFD. <i>International Journal of Production Research</i> , 2016 , 54, 1627-1649	7.8	31

119	Distributed Localization for 2-D Sensor Networks With Bearing-Only Measurements Under Switching Topologies. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 6345-6359	4.8	27
118	A sustainable running criterion for biped balance control. <i>Transactions of the Institute of Measurement and Control</i> , 2016 , 38, 62-72	1.8	1
117	Coupling mechanical design and control design for energy-efficient and stable walking of a compass-like biped. <i>Transactions of the Institute of Measurement and Control</i> , 2016 , 38, 253-265	1.8	11
116	Combined Flocking and Distance-Based Shape Control of Multi-Agent Formations. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1824-1837	5.9	68
115	A distributed algorithm for efficiently solving linear equations and its applications (Special Issue JCW). <i>Systems and Control Letters</i> , 2016 , 91, 21-27	2.4	38
114	Necessary and Sufficient Graphical Conditions for Affine Formation Control. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2877-2891	5.9	78
113	Performance Analysis of Raptor Codes Under Maximum Likelihood Decoding. <i>IEEE Transactions on Communications</i> , 2016 , 64, 906-917	6.9	10
112	Formation Control With Size Scaling Via a Complex Laplacian-Based Approach. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2348-2359	10.2	66
111	Distributed Source Localization of Multi-Agent Systems With Bearing Angle Measurements. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1105-1110	5.9	14
110	Decentralized Optimal Scheduling for Charging and Discharging of Plug-In Electric Vehicles in Smart Grids. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4118-4127	7	87
109	A game-theoretic approach to decentralized control of heterogeneous load population. <i>Electric Power Systems Research</i> , 2016 , 140, 552-559	3.5	3
108	Balance control of planar biped robots using virtual holonomic constraints. <i>Robotica</i> , 2016 , 34, 1227-1242	1	1
107	A new framework of electrical cyber physical systems 2016 ,		1
106	Global stabilization of rigid formations via sliding mode control 2016 ,		1
105	Formation control of heterogeneous agents over directed graphs 2016 ,		2
104	Assessing electric cyber-physical system using integrated co-simulation platform 2016 ,		1
103	On the necessity of the invariance conditions for reach control on polytopes. <i>Systems and Control Letters</i> , 2016 , 90, 16-19	2.4	4
102	On modeling of electrical cyber-physical systems considering cyber security. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2016 , 17, 465-478	2.2	30

101	Single landmark based collaborative multi-agent localization with time-varying range measurements and information sharing. <i>Systems and Control Letters</i> , 2016 , 87, 56-63	2.4	9
100	Energy-Efficient Time Synchronization in Wireless Sensor Networks via Temperature-Aware Compensation. <i>ACM Transactions on Sensor Networks</i> , 2016 , 12, 1-29	2.9	14
99	Reprint of A distributed algorithm for efficiently solving linear equations and its applications (Special Issue JCW) <i>Systems and Control Letters</i> , 2016 , 95, 46-52	2.4	
98	A single-mobile-anchor based distributed localization scheme for sensor networks 2016 ,		2
97	Three-dimensional formation merging control under directed and switching topologies. <i>Automatica</i> , 2015 , 58, 99-105	5.7	14
96	Distributed coordination in multi-agent systems: a graph Laplacian perspective. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2015 , 16, 429-448	2.2	13
95	Stability and agility: biped running over varied and unknown terrain. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2015 , 16, 283-292	2.2	3
94	Distributed Bisection Method for Economic Power Dispatch in Smart Grid. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3024-3035	7	100
93	An ADMM + consensus based distributed algorithm for dynamic economic power dispatch in smart grid 2015 ,		8
92	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 726-736	10.7	99
91	Feedback control for compass-like biped robot with underactuated ankles using transverse coordinate transformation. <i>Robotica</i> , 2015 , 33, 563-577	2.1	6
90	Stable walking of 3D compass-like biped robot with underactuated ankles using discrete transverse linearization. <i>Transactions of the Institute of Measurement and Control</i> , 2015 , 37, 1074-1083	1.8	10
89	Distributed Kalman filter for relative sensing networks 2015 ,		1
88	Controllability analysis of second-order multi-agent systems with directed and weighted interconnection. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2015 , 16, 838-847	2.2	
87	Scheduling parallel Kalman filters with quantized deadlines. <i>Systems and Control Letters</i> , 2015 , 86, 9-15	2.4	1
86	Distributed Self Localization for Relative Position Sensing Networks in 2D Space. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 3751-3761	4.8	26
85	Formation maneuvering with collision avoidance and connectivity maintenance 2015 ,		5
84	. <i>IEEE Transactions on Control of Network Systems</i> , 2015 , 2, 358-369	4	3

83	A barycentric coordinate based approach to formation control of multi-agent systems under directed and switching topologies 2015 ,		5
82	A distributed algorithm for efficiently solving linear equations 2015 ,		4
81	A fully distributed approach to resource allocation problem under directed and switching topologies 2015 ,		1
80	A Switching Control Strategy for Energy Efficient Walking on Uneven Surfaces. <i>International Journal of Humanoid Robotics</i> , 2015 , 12, 1550015	1.2	1
79	Decentralized PWM-based charging control for plug-in electric vehicles 2015 ,		4
78	Distributed algorithm for economic power dispatch including transmission losses 2015 ,		4
77	Reach almost sure consensus with only group information. <i>Automatica</i> , 2015 , 52, 283-289	5.7	9
76	Distributed control for uniform circumnavigation of ring-coupled unicycles. <i>Automatica</i> , 2015 , 53, 23-29	5.7	44
75	Cooperative localization of a cascading quadrilateral network 2014 ,		1
74	Distributed Formation Control of Multi-Agent Systems Using Complex Laplacian. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1765-1777	5.9	230
73	2014 ,		10
72	Fast Distributed Power Regulation Method via Networked Thermostatically Controlled Loads. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5439-5444		9
71	Energy Based Set Point Modulation for Obstacle Avoidance In Haptic Teleoperation of Aerial Robots. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 11030-11035		1
70	Formation Merging Control in 3D under Directed and Switching Topologies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 10036-10041		
69	Variable Speed Running on Kneel Biped Robot with Underactuation Degree Two. <i>International Journal of Humanoid Robotics</i> , 2014 , 11, 1450015	1.2	5
68	A linear approach to formation control under directed and switching topologies 2014 ,		3
67	Consensus based bisection approach for economic power dispatch 2014 ,		10
66	A fully distributed approach to formation maneuvering control of multi-agent systems 2014 ,		7

65	Consensus-Based Cooperative Source Localization of Multi-Agent Systems with Sampled Range Measurements. <i>Unmanned Systems</i> , 2014 , 02, 231-241	3	12
64	High efficient walking of compass-like biped robots with foot rotation 2014 ,		1
63	A Barycentric Coordinate Based Distributed Localization Algorithm for Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 4760-4771	4.8	62
62	Bearing angle based cooperative source localization 2014 ,		2
61	Curve shortening-inspired self-reconfiguration of heterogenous hexagonal-shaped modules toward a straight chain. <i>Robotica</i> , 2014 , 32, 723-741	2.1	
60	Affine formation of multi-agent systems over directed graphs 2014 ,		4
59	A new approach to distributed charging control for plug-in hybrid electric vehicles 2014 ,		10
58	Leader-follower formation via complex Laplacian. <i>Automatica</i> , 2013 , 49, 1900-1906	5.7	126
57	Range based target localization using a single mobile robot or multiple cooperative mobile robots 2013 ,		2
56	A linear control approach to distributed multi-agent formations in d-dimensional space 2013 ,		1
55	Scheduling parallel Kalman filters for multiple processes. <i>Automatica</i> , 2013 , 49, 9-16	5.7	11
54	An incremental deployment algorithm for wireless sensor networks using one or multiple autonomous agents. <i>Ad Hoc Networks</i> , 2013 , 11, 355-367	4.8	17
53	A new distributed localization method for sensor networks 2013 ,		8
52	Realizability of similar formation and local control of directed multi-agent networks in discrete-time 2013 ,		10
51	Distributed circumnavigation by unicycles with cyclic repelling strategies 2013 ,		6
50	A new distributed state estimation technique for power networks 2013 ,		2
49	Decentralized control of aggregated loads for demand response 2013 ,		5
48	Localizability and Distributed Localization of Sensor Networks using Relative Position Measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 1-6		2

47	Complex Laplacian and pattern formation in multi-agent systems 2012 ,		1
46	A geographically opportunistic routing protocol used in mobile wireless sensor networks 2012 ,		4
45	Local multi-robot coordination and experiments 2012 ,		1
44	A Dual Quaternion Solution to Attitude and Position Control for Rigid-Body Coordination. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1162-1170	6.5	60
43	Stability of interconnected impulsive switched systems subject to state dimension variation. <i>Nonlinear Analysis: Hybrid Systems</i> , 2012 , 6, 960-971	4.5	16
42	Walking control for compass-like biped robot with underactuated ankle 2012 ,		4
41	Pursuit formations with dynamic control gains. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 300-317	3.6	10
40	Enhancing Sink-Location Privacy in Wireless Sensor Networks through k-Anonymity. <i>International Journal of Distributed Sensor Networks</i> , 2012 , 8, 648058	1.7	13
39	Formation control of directed multi-agent networks based on complex Laplacian 2012 ,		8
38	Distributed transmit beamforming via feedback-based inter-cluster synchronization 2012 ,		4
37	Stable running on a kneed biped robot with only hip-joint actuation 2012 ,		1
36	Feedback Control of Planar Biped Robot With Regulable Step Length and Walking Speed. <i>IEEE Transactions on Robotics</i> , 2011 , 27, 162-169	6.5	29
35	Rendezvous of Unicycles with Continuous and Time-invariant Local Feedback. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10044-10049		8
34	Gait generation and control for biped robots with underactuation degree one. <i>Automatica</i> , 2011 , 47, 1605-1616	5.7	10
33	Reachability and stabilization of discrete-time affine systems with disturbances. <i>Automatica</i> , 2011 , 47, 2720-2727	5.7	1
32	Piecewise output feedback control for affine systems with disturbances based on linear temporal logic specifications. <i>Journal of Control Theory and Applications</i> , 2011 , 9, 289-294		1
31	Synthesis of Distributed Control of Coordinated Path Following Based on Hybrid Approach. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1170-1175	5.9	26
30	On a reachability problem for affine hypersurface systems on polytopes. <i>Automatica</i> , 2011 , 47, 769-775	5.7	14

29	A distributed reconfiguration strategy for target enveloping with hexagonal metamorphic modules 2011 ,		2
28	Stable running of a planar underactuated biped robot. <i>Robotica</i> , 2011 , 29, 657-665	2.1	13
27	Time-scaling control and passive walking of bipeds with underactuation degree one 2010 ,		3
26	Distributed Transmit Beamforming with Autonomous and Self-Organizing Mobile Antennas 2010 ,		4
25	A distributed reconfigurable control law for escorting and patrolling missions using teams of unicycles 2010 ,		18
24	Adaptive control schemes for mobile robot formations with triangularised structures. <i>IET Control Theory and Applications</i> , 2010 , 4, 1817-1827	2.5	37
23	Collective motions and formations under pursuit strategies on directed acyclic graphs. <i>Automatica</i> , 2010 , 46, 174-181	5.7	47
22	Distributed control of cooperative target enclosing based on reachability and invariance analysis. <i>Systems and Control Letters</i> , 2010 , 59, 381-389	2.4	78
21	Local control strategy for moving-target-enclosing under dynamically changing network topology. <i>Systems and Control Letters</i> , 2010 , 59, 654-661	2.4	101
20	Reachability of Affine Systems on Polytopes. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2010 , 35, 1528-1533		
19	A hybrid control approach to multi-robot coordinated path following 2009 ,		2
18	A hybrid control approach to cooperative target tracking with multiple mobile robots 2009 ,		8
17	Synthesis of output feedback control for motion planning based on LTL specifications 2009 ,		3
16	Ring-coupled unicycles: Boundedness, convergence, and control. <i>Automatica</i> , 2009 , 45, 2699-2706	5.7	35
15	Characterization of backward reachable set and positive invariant set in polytopes 2009 ,		2
14	2007 ,		4
13	State Agreement for Continuous-Time Coupled Nonlinear Systems. <i>SIAM Journal on Control and Optimization</i> , 2007 , 46, 288-307	1.9	322
12	Perfectly matched layer absorbing boundary condition for truncating the boundary of the left-handed medium. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 57-63	1.2	13

11	Controlling the polarization rotation of an optical field via asymmetry in electromagnetically induced transparency. <i>Physical Review A</i> , 2006 , 73,	2.6	47
10	Resolving Control to Facet Problems for Affine Hypersurface Systems on Simplices 2006 ,		10
9	ON THE STATE AGREEMENT PROBLEM FOR MULTIPLE NONLINEAR DYNAMICAL SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 82-87		2
8	Necessary and sufficient graphical conditions for formation control of unicycles. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 121-127	5.9	677
7	Local control strategies for groups of mobile autonomous agents. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 622-629	5.9	542
6	Feasibility for formation stabilization of multiple unicycles 2004 ,		1
5	Observer-based robust control for uncertain systems with time-varying delay. <i>IMA Journal of Mathematical Control and Information</i> , 2001 , 18, 439-450	1.1	13
4	Robust guaranteed cost control for discrete-time uncertain systems with delay. <i>IET Control Theory and Applications</i> , 1999 , 146, 598-602		38
3	Getting Mobile Autonomous Robots to Rendezvous119-137		7
2	Local control strategies for groups of mobile autonomous agents		4
1	Combining distance-based formation shape control with formation translation121-130		21