Deyuan Meng

List of Publications by Year
in descending order

94 papers	3,077 citations	136740 32 h-index	168136 53 g-index
95 all docs	95 docs citations	95 times ranked	1530 citing authors

#	Article	IF	Citations
1	Interval Bipartite Consensus of Networked Agents Associated With Signed Digraphs. IEEE Transactions on Automatic Control, 2016, 61, 3755-3770.	3.6	297
2	Robust Iterative Learning Control for Nonrepetitive Uncertain Systems. IEEE Transactions on Automatic Control, 2017, 62, 907-913.	3.6	171
3	Finite-Time Consensus for Multiagent Systems With Cooperative and Antagonistic Interactions. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 762-770.	7.2	165
4	Bipartite containment tracking of signed networks. Automatica, 2017, 79, 282-289.	3.0	141
5	On iterative learning algorithms for the formation control of nonlinear multi-agent systems. Automatica, 2014, 50, 291-295.	3.0	133
6	Iterative learning approaches to design finite-time consensus protocols for multi-agent systems. Systems and Control Letters, 2012, 61, 187-194.	1.3	112
7	Robust Consensus Tracking Control for Multiagent Systems With Initial State Shifts, Disturbances, and Switching Topologies. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 809-824.	7.2	104
8	Learning to cooperate: Networks of formation agents with switching topologies. Automatica, 2016, 64, 278-293.	3.0	101
9	Studies on Resilient Control Through Multiagent Consensus Networks Subject to Disturbances. IEEE Transactions on Cybernetics, 2014, 44, 2050-2064.	6.2	97
10	Formation control for multiâ€agent systems through an iterative learning design approach. International Journal of Robust and Nonlinear Control, 2014, 24, 340-361.	2.1	93
11	Scaled Consensus Problems on Switching Networks. IEEE Transactions on Automatic Control, 2016, 61, 1664-1669.	3.6	76
12	Robust Consensus Algorithms for Multiscale Coordination Control of Multivehicle Systems With Disturbances. IEEE Transactions on Industrial Electronics, 2016, 63, 1107-1119.	5.2	66
13	Convergence of iterative learning control for SISO nonrepetitive systems subject to iteration-dependent uncertainties. Automatica, 2017, 79, 167-177.	3.0	63
14	Signed-average consensus for networks of agents: a nonlinear fixed-time convergence protocol. Nonlinear Dynamics, 2016, 85, 155-165.	2.7	61
15	Robust cooperative learning control for directed networks with nonlinear dynamics. Automatica, 2017, 75, 172-181.	3.0	59
16	Nonlinear finite-time bipartite consensus protocol for multi-agent systems associated with signed graphs. International Journal of Control, 2015, 88, 2074-2085.	1.2	58
17	Robust Discrete-Time Iterative Learning Control for Nonlinear Systems With Varying Initial State Shifts. IEEE Transactions on Automatic Control, 2009, 54, 2626-2631.	3.6	55
18	Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 442-454.	5.9	53

#	ARTICLE	IF	CITATIONS
19	Grouped Gene Selection of Cancer via Adaptive Sparse Group Lasso Based on Conditional Mutual Information. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 2028-2038.	1.9	49
20	Deterministic Convergence for Learning Control Systems Over Iteration-Dependent Tracking Intervals. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3885-3892.	7.2	48
21	Dynamic Distributed Control for Networks With Cooperativeâ€"Antagonistic Interactions. IEEE Transactions on Automatic Control, 2018, 63, 2311-2326.	3.6	48
22	Data-Driven Control for Relative Degree Systems via Iterative Learning. IEEE Transactions on Neural Networks, 2011, 22, 2213-2225.	4.8	45
23	Consensus seeking via iterative learning for multi-agent systems with switching topologies and communication time-delays. International Journal of Robust and Nonlinear Control, 2016, 26, 3772-3790.	2.1	44
24	Uniform convergence for signed networks under directed switching topologies. Automatica, 2018, 90, 8-15.	3.0	44
25	Convergence Conditions for Solving Robust Iterative Learning Control Problems Under Nonrepetitive Model Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1908-1919.	7.2	42
26	Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4067-4077.	5.9	42
27	Extended Structural Balance Theory and Method for Cooperativeâ€"Antagonistic Networks. IEEE Transactions on Automatic Control, 2020, 65, 2147-2154.	3.6	39
28	Robust Optimization-Based Iterative Learning Control for Nonlinear Systems With Nonrepetitive Uncertainties. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1001-1014.	8.5	39
29	Dataâ€driven consensus control for networked agents: an iterative learning controlâ€motivated approach. IET Control Theory and Applications, 2015, 9, 2084-2096.	1.2	38
30	Robust ILC with iteration-varying initial state shifts: a 2D approach. International Journal of Systems Science, 2015, 46, 1-17.	3.7	37
31	Convergence analysis of directed signed networks via an M-matrix approach. International Journal of Control, 2018, 91, 827-847.	1.2	36
32	Disagreement of Hierarchical Opinion Dynamics with Changing Antagonisms. SIAM Journal on Control and Optimization, 2019, 57, 718-742.	1.1	35
33	Robust iterative learning protocols for finite-time consensus of multi-agent systems with interval uncertain topologies. International Journal of Systems Science, 2015, 46, 857-871.	3.7	32
34	Highâ€precision formation control of nonlinear multiâ€agent systems with switching topologies: A learning approach. International Journal of Robust and Nonlinear Control, 2015, 25, 1993-2018.	2.1	31
35	Robust learning controller design for MIMO stochastic discreteâ€time systems: An H_{∞}â€based approach. International Journal of Adaptive Control and Signal Processing, 2011, 25, 653-670.	2.3	28
36	Convergence Analysis of Saturated Iterative Learning Control Systems With Locally Lipschitz Nonlinearities. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4025-4035.	7.2	27

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37	On exponential stability of switched homogeneous positive systems of degree one. Automatica, 2019, 103, 302-309.	3.0	26
38	Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 842-852.	5.9	25
39	Multi-agent iterative learning control with communication topologies dynamically changing in two directions. IET Control Theory and Applications, 2013, 7, 261-270.	1.2	20
40	Convergence Analysis of Robust Iterative Learning Control Against Nonrepetitive Uncertainties: System Equivalence Transformation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3867-3879.	7.2	19
41	Stability of varying two-dimensional Roesser systems and its application to iterative learning control convergence analysis. IET Control Theory and Applications, 2015, 9, 1221-1228.	1.2	17
42	Edge Convergence Problems on Signed Networks. IEEE Transactions on Cybernetics, 2019, 49, 4029-4041.	6.2	17
43	Initial shift problem for robust iterative learning control systems with polytopic-type uncertainty. International Journal of Systems Science, 2010, 41, 825-838.	3.7	16
44	Necessary and sufficient stability condition of LTV iterative learning control systems using a 2-D approach. Asian Journal of Control, 2011, 13, 25-37.	1.9	16
45	Finite-time consensus protocols for networks of dynamic agents by terminal iterative learning. International Journal of Systems Science, 2014, 45, 2435-2446.	3.7	15
46	H_∞ approach to monotonically convergent ILC for uncertain time-varying delay systems. International Journal of Systems Science, 2015, 46, 209-217.	3.7	15
47	Design and Analysis of Data-Driven Learning Control: An Optimization-Based Approach. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5527-5541.	7.2	14
48	Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5174-5188.	5.9	13
49	Monotonically convergent ILC systems designed using bounded real lemma. International Journal of Systems Science, 2012, 43, 2062-2071.	3.7	12
50	Distributed Impulsive Control for Signed Networks of Coupled Harmonic Oscillators With Sampled Positions. IEEE Transactions on Control of Network Systems, 2021, 8, 111-122.	2.4	12
51	Distributed Controller Design and Analysis of Second-Order Signed Networks With Communication Delays. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4123-4137.	7.2	11
52	Cooperative Learning for Switching Networks With Nonidentical Nonlinear Agents. IEEE Transactions on Automatic Control, 2021, 66, 6131-6138.	3.6	11
53	Robust adaptive learning for attitude control of rigid bodies with initial alignment errors. Automatica, 2022, 137, 110024.	3.0	11
54	Fully Distributed Synchronization of Complex Networks With Adaptive Coupling Strengths. IEEE Transactions on Cybernetics, 2022, 52, 11581-11593.	6.2	10

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55	Consensus-based iterative learning of heterogeneous agents with application to distributed optimization. Automatica, 2022, 137, 110096.	3.0	10
56	Feedback iterative learning control for time-delay systems based on 2D analysis approach. Journal of Control Theory and Applications, 2010, 8, 457-463.	0.8	9
57	Anticipatory approach to design robust iterative learning control for uncertain time–delay systems. Asian Journal of Control, 2011, 13, 38-53.	1.9	9
58	Coordination learning control for groups of mobile agents. Journal of the Franklin Institute, 2013, 350, 2183-2211.	1.9	9
59	Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1885-1896.	5.9	9
60	Convergence Behavior Analysis of Directed Signed Networks Subject to Nonidentical Topologies. IEEE Transactions on Automatic Control, 2021, 66, 872-879.	3.6	9
61	Iterative Rectifying Methods for Nonrepetitive Continuous-Time Learning Control Systems. IEEE Transactions on Cybernetics, 2023, 53, 338-351.	6.2	9
62	Control Design for Iterative Methods in Solving Linear Algebraic Equations. IEEE Transactions on Automatic Control, 2022, 67, 5039-5054.	3.6	9
63	Bipartite coordination problems on networks of multiple mobile agents. Journal of the Franklin Institute, 2015, 352, 4698-4720.	1.9	8
64	Bipartite Consensus for Second-Order Multi-Agent Systems over Nonidentical Signed Graphs. IFAC-PapersOnLine, 2018, 51, 301-306.	0.5	8
65	A Virtual Reality based Training and Assessment System for Hand Rehabilitation. , 2018, , .		8
66	Cooperative iterative learning for uncertain nonlinear agents in leaderless switching networks. Automatica, 2021, 129, 109692.	3.0	8
67	Distributed Averaging Problems Over Directed Signed Networks. IEEE Transactions on Control of Network Systems, 2021, 8, 1442-1453.	2.4	8
68	Transcale average consensus of directed multi-vehicle networks with fixed and switching topologies. International Journal of Control, 2017, 90, 2098-2110.	1.2	7
69	Disagreement and Antagonism in Signed Networks: A Survey. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1166-1187.	8.5	7
70	Further Results for Edge Convergence of Directed Signed Networks. IEEE Transactions on Cybernetics, 2021, 51, 5659-5670.	6.2	6
71	Behavior Analysis of Directed Signed Networks Under Dynamic Protocols. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2562-2566.	2.2	5
72	Extended Structural Balance and Disagreement Behaviors for Switching Networks With Antagonistic Interactions. IEEE Transactions on Control of Network Systems, 2021, 8, 77-88.	2.4	5

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73	Distributed Control With Heterogeneous Gains for Signed Networks: An H-Matrix Approach. IEEE Transactions on Control of Network Systems, 2022, 9, 25-36.	2.4	5
74	Bipartite Containment Fluctuation Behaviors of Cooperative–Antagonistic Networks With Time-Varying Topologies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7391-7400.	5.9	5
75	Two alternative approaches to stochastic discrete-time iterative learning control systems. , 2011, , .		4
76	Transient Bipartite Synchronization for Cooperative-Antagonistic Multiagent Systems With Switching Topologies. IEEE Transactions on Cybernetics, 2022, 52, 11467-11476.	6.2	4
77	Nonsynchronous Model Reduction for Uncertain 2-D Markov Jump Systems. IEEE Transactions on Cybernetics, 2022, 52, 10177-10186.	6.2	4
78	Consensus Control for Multi-agent Networks with Mixed Undirected Interactions. Lecture Notes in Electrical Engineering, 2016, , 101-108.	0.3	4
79	Robust iterative learning control with high-order internal models for SISO nonrepetitive systems. , 2017, , .		3
80	Convergence for SISO ILC Systems with Locally Lipschitz Nonlinear Dynamics * *This work was supported in part by the National Natural Science Foundation of China (NSFC: 61473010, 61520106010,) Tj ETQq0 0 0 rgBT /Overlock Re-search Funds for the Central Universities.. IFAC-PapersOnLine, 2017, 50, 12083-12088.	0.5	3
81	Distributed Control for Signed Networks of Nonlinear Agents. International Journal of Control, Automation and Systems, 2020, 18, 271-281.	1.6	3
82	Iterative Learning Control for Continuous-Time Systems with Locally Lipschitz Nonlinearity and Input Saturation. , 2018, , .		2
83	Algebraic criteria for structure identification and behaviour analysis of signed networks. International Journal of Systems Science, 2019, 50, 2333-2347.	3.7	2
84	Iterative Learning-Based Formation Control for Multi-agent Systems with Locally Lipschitz Nonlinear Dynamics. , 2019, , .		2
85	Distributed Control of Time-Varying Signed Networks: Theories and Applications. IEEE Transactions on Cybernetics, 2022, 52, 301-311.	6.2	2
86	A survey on distributed iterative learning control for transient formation. Control Theory and Technology, 2021, 19, 295-297.	1.0	1
87	Robust Tracking Problems for Continuous-Time Iterative Learning Systems With Nonrepetitive Model Uncertainties. , 2020, , .		1
88	Analysis of Opinion Dynamics in Social Networks Subject to Time-Varying Topologies. , 2019, , .		0
89	Deterministic Tracking for Continuous-Time ILC Systems With Nonrepetitive Time Intervals. , 2021, , .		0
90	Passive Hand Rehabilitation Training Through Robots: an Iterative Learning Control Approach. , 2021, , .		0

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91	Distributed Control Problems on Signed Networks Under Mixed Static and Dynamic Protocols. IEEE Transactions on Cybernetics, 2023, 53, 2886-2898.	6.2	0
92	Quaternion-Based Adaptive Iterative Learning Control for Attitude Tracking of Spacecraft. , 2020, , .		0
93	Improving Tracking Accuracy for Repetitive Learning Systems by High-Order Extended State Observers. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10398-10407.	7.2	0
94	Robust learningâ€based lateral tracking control forÂautonomous driving with input constraints. International Journal of Robust and Nonlinear Control, 0, , .	2.1	0