

# Dong Shen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7690128/publications.pdf>

Version: 2024-02-01

151  
papers

2,547  
citations

236925

25  
h-index

243625

44  
g-index

159  
all docs

159  
docs citations

159  
times ranked

1034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Survey on stochastic iterative learning control. <i>Journal of Process Control</i> , 2014, 24, 64-77.	3.3	189
2	On almost sure and mean square convergence of P-type ILC under randomly varying iteration lengths. <i>Automatica</i> , 2016, 63, 359-365.	5.0	121
3	Iterative learning control with incomplete information: a survey. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2018, 5, 885-901.	13.1	115
4	Adaptive Learning Control for Nonlinear Systems With Randomly Varying Iteration Lengths. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 1119-1132.	11.3	91
5	Iterative Learning Control for discrete nonlinear systems with randomly iteration varying lengths. <i>Systems and Control Letters</i> , 2016, 96, 81-87.	2.3	87
6	Distributed learning consensus for heterogenous high-order nonlinear multi-agent systems with output constraints. <i>Automatica</i> , 2018, 97, 64-72.	5.0	84
7	A Novel Markov Chain Based ILC Analysis for Linear Stochastic Systems Under General Data Dropouts Environments. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5850-5857.	5.7	73
8	ILC for networked nonlinear systems with unknown control direction through random Lossy channel. <i>Systems and Control Letters</i> , 2015, 77, 30-39.	2.3	65
9	Fault diagnosis and compensation for two-dimensional discrete time systems with sensor faults and time-varying delays. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 3296-3320.	3.7	65
10	Two novel iterative learning control schemes for systems with randomly varying trial lengths. <i>Systems and Control Letters</i> , 2017, 107, 9-16.	2.3	64
11	Two-step principal component analysis for dynamic processes monitoring. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 160-170.	1.7	62
12	Iterative learning control for discrete-time stochastic systems with quantized information. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2016, 3, 59-67.	13.1	50
13	A survey on iterative learning control with randomly varying trial lengths: Model, synthesis, and convergence analysis. <i>Annual Reviews in Control</i> , 2019, 48, 89-102.	7.9	47
14	Enhanced P-Type Control: Indirect Adaptive Learning From Set-Point Updates. <i>IEEE Transactions on Automatic Control</i> , 2023, 68, 1600-1613.	5.7	47
15	Data-Driven Learning Control for Stochastic Nonlinear Systems: Multiple Communication Constraints and Limited Storage. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2429-2440.	11.3	45
16	Two updating schemes of iterative learning control for networked control systems with random data dropouts. <i>Information Sciences</i> , 2017, 381, 352-370.	6.9	44
17	Learning formation control for fractional-order multiagent systems. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 5003-5014.	2.3	43
18	Iterative Learning Control: Practical Implementation and Automation. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 1858-1866.	7.9	37

#	ARTICLE	IF	CITATIONS
19	Learning Control for Motion Coordination in Wafer Scanners: Toward Gain Adaptation. IEEE Transactions on Industrial Electronics, 2022, 69, 13428-13438.	7.9	33
20	Iterative learning control for large scale nonlinear systems with observation noise. Automatica, 2012, 48, 577-582.	5.0	32
21	Sampled-data iterative learning control for continuous-time nonlinear systems with iteration-varying lengths. International Journal of Robust and Nonlinear Control, 2018, 28, 3073-3091.	3.7	31
22	Iterative learning control for non-linear systems with deadzone input and time delay in presence of measurement noise. IET Control Theory and Applications, 2011, 5, 1418-1425.	2.1	30
23	Robust learning control for nonlinear systems with nonparametric uncertainties and nonuniform trial lengths. International Journal of Robust and Nonlinear Control, 2019, 29, 1302-1324.	3.7	30
24	An Iterative Learning Control Algorithm With Gain Adaptation for Stochastic Systems. IEEE Transactions on Automatic Control, 2020, 65, 1280-1287.	5.7	30
25	Zero-error convergence of iterative learning control based on uniform quantisation with encoding and decoding mechanism. IET Control Theory and Applications, 2018, 12, 1907-1915.	2.1	27
26	Noisy-Output-Based Direct Learning Tracking Control With Markov Nonuniform Trial Lengths Using Adaptive Gains. IEEE Transactions on Automatic Control, 2022, 67, 4123-4130.	5.7	27
27	A Technical Overview of Recent Progresses on Stochastic Iterative Learning Control. Unmanned Systems, 2018, 06, 147-164.	3.6	26
28	Distributed learning consensus control based on neural networks for heterogeneous nonlinear multiagent systems. International Journal of Robust and Nonlinear Control, 2019, 29, 4328-4347.	3.7	26
29	Iterative learning control for fractional-order multi-agent systems. Journal of the Franklin Institute, 2019, 356, 6328-6351.	3.4	25
30	A framework of iterative learning control under random data dropouts: Mean square and almost sure convergence. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1825-1852.	4.1	24
31	Performance Enhancement of Learning Tracking Systems Over Fading Channels With Multiplicative and Additive Randomness. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1196-1210.	11.3	24
32	Iterative Learning Control With Unknown Control Direction: A Novel Data-Based Approach. IEEE Transactions on Neural Networks, 2011, 22, 2237-2249.	4.2	23
33	Reliable $H_\infty$ control of discrete-time systems against random intermittent faults. International Journal of Systems Science, 2016, 47, 2290-2301.	5.5	23
34	Adaptive learning tracking for uncertain systems with partial structure information and varying trial lengths. Journal of the Franklin Institute, 2018, 355, 7027-7055.	3.4	22
35	Iterative Learning Control for Locally Lipschitz Nonlinear Fractional-order Multi-agent Systems. Journal of the Franklin Institute, 2020, 357, 6671-6693.	3.4	22
36	A Probabilistically Quantized Learning Control Framework for Networked Linear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7559-7573.	11.3	22

#	ARTICLE	IF	CITATIONS
37	Distributed adaptive iterative learning control for nonlinear multiagent systems with state constraints. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017, 31, 1779-1807.	4.1	22
38	Atomistic investigation of scratching-induced deformation twinning in nanocrystalline Cu. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	21
39	Optimization of insulin pump therapy based on high order run-to-run control scheme. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 120, 123-134.	4.7	21
40	Iterative learning control for noninstantaneous impulsive fractional-order systems with varying trial lengths. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 6202-6238.	3.7	21
41	Iterative Learning Tracking for Multisensor Systems: A Weighted Optimization Approach. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 1286-1299.	9.5	21
42	Learning control for linear systems under general data dropouts at both measurement and actuator sides: A Markov chain approach. <i>Journal of the Franklin Institute</i> , 2017, 354, 5091-5109.	3.4	20
43	Adaptive learning tracking for robot manipulators with varying trial lengths. <i>Journal of the Franklin Institute</i> , 2019, 356, 5993-6014.	3.4	20
44	Convergence analysis for iterative learning control of conformable fractional differential equations. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8315-8328.	2.3	19
45	Adaptive iterative learning control for MIMO nonlinear systems performing iteration-varying tasks. <i>Journal of the Franklin Institute</i> , 2019, 356, 9206-9231.	3.4	19
46	Electrochemical mechanical micromachining based on confined etchant layer technique. <i>Faraday Discussions</i> , 2013, 164, 189.	3.2	18
47	Intermittent and Successive ILC for Stochastic Nonlinear Systems with Random Data Dropouts. <i>Asian Journal of Control</i> , 2018, 20, 1102-1114.	3.0	18
48	Iterative learning control for linear discrete delay systems via discrete matrix delayed exponential function approach. <i>Journal of Difference Equations and Applications</i> , 2018, 24, 1756-1776.	1.1	18
49	$\pm$ -type distributed learning control for nonlinear fractional-order multiagent systems. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 4543-4553.	2.3	17
50	Zero-Error Tracking Control Under Unified Quantized Iterative Learning Framework via Encoding-Decoding Method. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 1979-1991.	9.5	16
51	Averaging Techniques for Balancing Learning and Tracking Abilities Over Fading Channels. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2636-2651.	5.7	16
52	Iterative Learning Control for Nonlinear Systems with Data Dropouts at Both Measurement and Actuator Sides. <i>Asian Journal of Control</i> , 2018, 20, 1624-1636.	3.0	15
53	Iterative learning control for differential inclusions of parabolic type with noninstantaneous impulses. <i>Applied Mathematics and Computation</i> , 2019, 350, 48-59.	2.2	15
54	Iterative learning control of multi-agent systems with random noises and measurement range limitations. <i>International Journal of Systems Science</i> , 2019, 50, 1465-1482.	5.5	14

#	ARTICLE	IF	CITATIONS
55	Multidimensional Gains for Stochastic Approximation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1602-1615.	11.3	14
56	Learning Tracking Control Over Unknown Fading Channels Without System Information. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2721-2732.	11.3	14
57	Stochastic Point-to-Point Iterative Learning Tracking Without Prior Information on System Matrices. IEEE Transactions on Automation Science and Engineering, 2017, 14, 376-382.	5.2	13
58	Iterative Learning Control with Passive Incomplete Information. , 2018, , .		13
59	Terminal iterative learning control for discrete-time nonlinear systems based on neural networks. Journal of the Franklin Institute, 2018, 355, 3641-3658.	3.4	13
60	A Kiefer-Wolfowitz Algorithm Based Iterative Learning Control for Hammerstein-Wiener Systems. Asian Journal of Control, 2012, 14, 1070-1083.	3.0	12
61	Adaptive learning control for general nonlinear systems with nonuniform trial lengths, initial state deviation, and unknown control direction. International Journal of Robust and Nonlinear Control, 2019, 29, 6227-6243.	3.7	12
62	Encoding-Decoding Mechanism-Based Finite-Level Quantized Iterative Learning Control With Random Data Dropouts. IEEE Transactions on Automation Science and Engineering, 2020, , 1-19.	5.2	12
63	Iterative learning control for multi-agent systems with impulsive consensus tracking. Nonlinear Analysis: Modelling and Control, 2021, 26, 130-150.	1.6	12
64	Motion Control of Robotic Fish Under Dynamic Environmental Conditions Using Adaptive Control Approach. IEEE Journal of Oceanic Engineering, 2018, 43, 381-390.	3.8	11
65	ILC for networked discrete systems with random data dropouts: A switched system approach. , 2014, , .		10
66	Stochastic Point-to-Point Iterative Learning Control Based on Stochastic Approximation. Asian Journal of Control, 2017, 19, 1748-1755.	3.0	10
67	Learning Tracking Over Unknown Fading Channels Based on Iterative Estimation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 48-60.	11.3	10
68	Glucose outcomes of a learning-type artificial pancreas with an unannounced meal in type 1 diabetes. Computer Methods and Programs in Biomedicine, 2020, 191, 105416.	4.7	10
69	A Two-Dimensional Approach to Iterative Learning Control with Randomly Varying Trial Lengths. Journal of Systems Science and Complexity, 2020, 33, 685-705.	2.8	10
70	Stochastic iterative learning control with faded signals. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 1196-1208.	13.1	9
71	Iterative Learning Control for Output Tracking of Nonlinear Systems With Unavailable State Information. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5085-5092.	11.3	9
72	Convergence analysis for iterative learning control of impulsive linear discrete delay systems. Journal of Difference Equations and Applications, 2021, 27, 739-762.	1.1	9

#	ARTICLE	IF	CITATIONS
73	Convergence analysis of ILC input sequence for underdetermined linear systems. Science China Information Sciences, 2017, 60, 1.	4.3	8
74	Iterative learning control for linear delay systems with deterministic and random impulses. Journal of the Franklin Institute, 2018, 355, 2473-2497.	3.4	8
75	Improving Boundary Level Calculation in Quantized Iterative Learning Control With Encoding and Decoding Mechanism. IEEE Access, 2019, 7, 66623-66632.	4.2	8
76	Learning Control for Networked Stochastic Systems With Random Fading Communication. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3659-3670.	9.3	8
77	Iterative learning control for networked stochastic systems with random packet losses. International Journal of Control, 2014, , 1-10.	1.9	7
78	Zero-error convergence of iterative learning control using quantized error information. IMA Journal of Mathematical Control and Information, 0, , dnw031.	1.7	7
79	Almost sure convergence of ILC for networked linear systems with random link failures. International Journal of Control, Automation and Systems, 2017, 15, 647-655.	2.7	7
80	Low-temperature synthesis of SiC nanowires with Ni catalyst. Rare Metals, 2019, 38, 206-209.	7.1	7
81	Iterative learning control for nonlinear differential inclusion systems. International Journal of Robust and Nonlinear Control, 2020, 30, 2937-2952.	3.7	7
82	Adaptive Fixed-Time Antilock Control of Levitation System of High-Speed Maglev Train. IEEE Transactions on Intelligent Vehicles, 2023, 8, 3394-3404.	12.7	7
83	ILC for networked nonlinear systems with random measurement losses and unknown control direction. , 2014, , .		6
84	Variable Gain Feedback $PD^{\alpha}$ -Type Iterative Learning Control for Fractional Nonlinear Systems With Time-Delay. IEEE Access, 2019, 7, 90106-90114.	4.2	6
85	Seizure Control by a Learning Type Active Disturbance Rejection Approach. IEEE Access, 2019, 7, 164792-164802.	4.2	6
86	Iterative learning based consensus control for distributed parameter type multi-agent differential inclusion systems. International Journal of Robust and Nonlinear Control, 2022, 32, 6785-6804.	3.7	6
87	Nonlinear Robust Composite Levitation Control for High-Speed EMS Trains With Input Saturation and Track Irregularities. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20323-20336.	8.0	6
88	Fabrication of atomic force microscope spherical tips and its application in determining the mechanical property of cancer cells. Micro and Nano Letters, 2016, 11, 881-884.	1.3	5
89	Learning control for discrete-time nonlinear systems with sensor saturation and measurement noises. International Journal of Systems Science, 2017, 48, 2764-2778.	5.5	5
90	Zero-error convergence of iterative learning control using uniform quantizer with encoding and decoding method. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
91	Optimal Learning Control Scheme for Discrete-Time Systems With Nonuniform Trials. IEEE Transactions on Cybernetics, 2023, 53, 3639-3650.	9.5	5
92	Iterative learning control for stochastic point-to-point tracking system. , 2012, , .		4
93	Zero-error tracking of iterative learning control using probabilistically quantized measurements. , 2017, , .		4
94	Iterative learning control for networked stochastic systems with random measurement losses. , 2014, , .		3
95	Iterative learning control for discrete-time affine nonlinear system with iteration varying lengths. , 2015, , .		3
96	Iterative Learning Control for Discrete-time Linear Systems Through Fading Channels. IFAC-PapersOnLine, 2019, 52, 123-128.	0.9	3
97	Consensus tracking problem for linear fractional multi-agent systems with initial state error. Nonlinear Analysis: Modelling and Control, 2020, 25, .	1.6	3
98	Accelerated Learning Control for Point-to-Point Tracking Systems. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1265-1277.	11.3	3
99	Practical Learning-Tracking Framework Under Unknown Nonrepetitive Channel Randomness. IEEE Transactions on Automatic Control, 2023, 68, 3331-3347.	5.7	3
100	Discrete-time stochastic iterative learning control: A brief survey. , 2012, , .		2
101	Calculation of the intracellular elastic modulus based on an atomic force microscope micro-cutting system. Science Bulletin, 2012, 57, 1868-1872.	1.7	2
102	ILC for networked control systems with asynchronous multiple data dropouts. , 2014, , .		2
103	Almost sure and mean square convergence of ILC for linear systems with randomly varying iteration lengths. , 2015, , .		2
104	Iterative learning control for networked nonlinear systems using latest information. , 2015, , .		2
105	Terminal iterative learning control for discrete-time nonlinear system based on neural networks. , 2015, , .		2
106	Iterative Learning Control for Linear Systems with Fading Channels. , 2019, , .		2
107	Collaborative Tracking Systems Using Decentralized Iterative Learning Control. , 2020, , .		2
108	Batch-Based Learning Consensus of Multiagent Systems With Faded Neighborhood Information. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2965-2977.	11.3	2

#	ARTICLE	IF	CITATIONS
109	Iterative learning control for biped walking robot with varying iteration lengths. , 2016, , .		1
110	On iterative learning tracking problem for multi-sensor systems. , 2017, , .		1
111	Iterative learning control for linear systems with Markov data dropouts: Noise-free case. , 2017, , .		1
112	Iterative Learning Consensus for Discrete-time Multi-Agent Systems with Measurement Saturation and Random Noises. , 2018, , .		1
113	A Novel Iterative Learning Control Approach Based on Steady-State Kalman Filtering. IEEE Access, 2019, 7, 99371-99380.	4.2	1
114	Data Driven Control for a Class of Nonlinear SISO Systems with Uniform Quantizer Using Encoding and Decoding Mechanism. , 2019, , .		1
115	Iterative learning control using faded measurements without system information: a gradient estimation approach. International Journal of Systems Science, 2020, 51, 2675-2689.	5.5	1
116	Recent Advances in Iterative Learning Control with Fading Channel. , 2021, , .		1
117	Moving Averaging Techniques for Linear Discrete-Time Systems. , 2019, , 49-65.		1
118	Distributed iterative learning temperature control for large-scale buildings. International Journal of Robust and Nonlinear Control, 2023, 33, 4210-4227.	3.7	1
119	Chemomechanical Production of Functional Structure on Silicon Surfaces. Chinese Journal of Chemical Physics, 2007, 20, 655-659.	1.3	0
120	Preparation of Aryldiazonium Salt Monolayers on Si(100) Surface by Chemomechanical Method. Chinese Journal of Chemical Physics, 2011, 24, 741-744.	1.3	0
121	Analysis on principle and key techniques of deterministic finishing. , 2011, , .		0
122	Design of fuzzy adaptive iterative learning control for nonaffine nonlinear discrete-time systems. , 2015, , .		0
123	An adaptive terminal iterative learning control for nonaffine nonlinear discrete-time systems. , 2015, , .		0
124	A direct adaptive iterative learning control for nonaffine nonlinear discrete-time systems with unknown control directions. , 2016, , .		0
125	Practical sampled-data iterative learning control with varying sampling rates. , 2016, , .		0
126	A framework for cars to join or leave a car formation. , 2016, , .		0



#	ARTICLE	IF	CITATIONS
127	Brief review on sampled-data iterative learning control. , 2016, , .		0
128	On interval tracking performance evaluation and practical varying sampling ILC. International Journal of Systems Science, 2017, 48, 1624-1634.	5.5	0
129	Boundary tracking control for MIMO PDE-ODE cascade systems via learning control approach. , 2017, , .		0
130	Sampled-data iterative learning control for nonlinear systems with iteration varying lengths. , 2017, , .		0
131	Finite-level Quantized Iterative Learning Control by Encoding-Decoding Mechanisms. , 2018, , .		0
132	Uniformly Quantized ILC with Encoding and Decoding Mechanism under Random Data Dropouts. , 2019, , .		0
133	Learning Consensus for Nonlinear Multi-Agent Systems with Iteration-Switching Topologies. , 2019, , .		0
134	A Learning Control Algorithm for Networked Stochastic Systems Under Fading Channels. , 2019, , .		0
135	Adaptive Learning Control for Second-Order Nonlinear Multi-Agent Systems with Iteration-Switching Topologies. IFAC-PapersOnLine, 2019, 52, 129-134.	0.9	0
136	Iterative learning control for networked nonlinear systems with fading communication. , 2020, , .		0
137	An efficient algorithm for collaborative learning model predictive control of nonlinear systems. ISA Transactions, 2021, , .	5.7	0
138	Random Iteration-Varying Lengths for Nonlinear Systems. , 2018, , 255-269.		0
139	Random Sequence Model for Linear Systems. , 2018, , 23-50.		0
140	Two-Side Data Dropout for Nonlinear Systems. , 2018, , 197-214.		0
141	Random Iteration-Varying Lengths for Linear Systems. , 2018, , 241-253.		0
142	Two-Side Data Dropout for Linear Stochastic Systems. , 2018, , 179-195.		0
143	Two-Side Data Dropout for Linear Deterministic Systems. , 2018, , 163-178.		0
144	Random Sequence Model for Nonlinear Systems with Unknown Control Direction. , 2018, , 65-82.		0

#	ARTICLE	IF	CITATIONS
145	CEF Techniques for Uncertain Systems with Partial Structure Information. , 2019, , 225-254.		0
146	CEF Techniques for Parameterized Nonlinear Continuous-Time Systems. , 2019, , 163-192.		0
147	Switching System Techniques for Linear Discrete-Time Systems. , 2019, , 67-80.		0
148	Modified Lambda-Norm Techniques for Nonlinear Discrete-Time Systems. , 2019, , 119-134.		0
149	CEF Techniques for Nonparameterized Nonlinear Continuous-Time Systems. , 2019, , 193-224.		0
150	Sampled-Data Control for Nonlinear Continuous-Time Systems. , 2019, , 135-161.		0
151	Iterative Learning Control for Output Tracking of Systems with Unmeasurable States. IFAC-PapersOnLine, 2020, 53, 1439-1443.	0.9	0