

Chiang-Ju Chien

List of Publications by Year in descending order

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67
papers

740
citations

1040056

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g-index

67
all docs

67
docs citations

67
times ranked

409
citing authors

#	ARTICLE	IF	CITATIONS
1	A Unified Adaptive Iterative Learning Control Framework for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2007, 52, 1907-1913.	5.7	146
2	A Combined Adaptive Law for Fuzzy Iterative Learning Control of Nonlinear Systems With Varying Control Tasks. IEEE Transactions on Fuzzy Systems, 2008, 16, 40-51.	9.8	125
3	Fuzzy System-Based Adaptive Iterative Learning Control for Nonlinear Plants With Initial State Errors. IEEE Transactions on Fuzzy Systems, 2004, 12, 724-732.	9.8	96
4	A Novel Common-Subexpression-Elimination Method for Synthesizing Fixed-Point FIR Filters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 2215-2221.	0.1	70
5	Enhanced Data-Driven Optimal Terminal ILC Using Current Iteration Control Knowledge. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2939-2948.	11.3	48
6	A sampled-data iterative learning control using fuzzy network design. International Journal of Control, 2000, 73, 902-913.	1.9	42
7	Decentralized adaptive fuzzy neural iterative learning control for nonaffine nonlinear interconnected systems. Asian Journal of Control, 2011, 13, 94-106.	3.0	20
8	A Fuzzy-Neural Adaptive Terminal Iterative Learning Control for Fed-Batch Fermentation Processes. International Journal of Fuzzy Systems, 2015, 17, 423-433.	4.0	20
9	The Design of a Square-Root-Raised-Cosine FIR Filter by a Recursive Method. , 0, , .		12
10	Convergence Analysis of Sampled-Data ILC for Locally Lipschitz Continuous Nonlinear Nonaffine Systems With Nonrepetitive Uncertainties. IEEE Transactions on Automatic Control, 2021, 66, 3347-3354.	5.7	10
11	Adaptive control of interconnected systems using neural network design. , 0, , .		8
12	An Observer-Based Adaptive Iterative Learning Control Using Filtered-FNN Design for Robotic Systems. Advances in Mechanical Engineering, 2014, 6, 471-418.	1.6	7
13	An E�HOIM Based Data�Driven Adaptive TILC of Nonlinear Discrete�Time Systems for Non�Repetitive Terminal Point Tracking. Asian Journal of Control, 2018, 20, 1135-1144.	3.0	7
14	A new algorithm of adaptive iterative learning control for uncertain robotic systems. , 0, , .		6
15	Decentralized Adaptive Fuzzy Iterative Learning Control for Repeatable Nonlinear Interconnected Systems. , 2006, , .		6
16	On the current error based sampled-data iterative learning control with reduced memory capacity. International Journal of Automation and Computing, 2015, 12, 307-315.	4.5	6
17	Takagi-Sugeno recurrent fuzzy neural networks for identification and control of dynamic systems. , 0, , .		5
18	An Adaptive Iterative Learning Control Framework for a Class of Uncertain Nonlinear Systems. , 2006, , .		5

#	ARTICLE	IF	CITATIONS
19	An observer based adaptive iterative learning control for robotic systems. , 2011, , .		5
20	An observer-based model reference adaptive iterative learning controller for MIMO nonlinear systems. , 2014, , .		5
21	Design and analysis of current error based sampled-data ILC with application to position tracking control of DC motors. , 2014, , .		5
22	Global localization of Monte Carlo localization based on multi-objective particle swarm optimization. , 2016, , .		5
23	Fuzzy-neural adaptive iterative learning control for a class of nonlinear discrete-time systems. , 2012, , .		4
24	Feedback control based sampled-data ILC for repetitive position tracking control of DC motors. , 2013, , .		4
25	ADAPTIVE ITERATIVE LEARNING CONTROL OF ROBOTIC SYSTEMS USING BACKSTEPPING DESIGN. Transactions of the Canadian Society for Mechanical Engineering, 2013, 37, 591-601.	0.8	4
26	Sample-data adaptive iterative learning control for a class of unknown nonlinear systems. , 2014, , .		4
27	A fuzzy iterative learning control for nonlinear discrete-time systems with unknown control directions. , 2015, , .		4
28	Multiple Master-Slave FPGA Architecture of a Stereo Visual Odometry. IEEE Access, 2021, 9, 103266-103278.	4.2	4
29	A neural network based learning controller for robot manipulators. , 0, , .		3
30	A DSP based sampled-data iterative learning control system for brushless DC motors. , 0, , .		3
31	An output recurrent fuzzy neural network based iterative learning control for nonlinear systems. , 2008, , .		3
32	Output based direct adaptive iterative learning control for nonlinear systems. , 2010, , .		3
33	An Output-Recurrent-Neural-Network-Based Iterative Learning Control for Unknown Nonlinear Dynamic Plants. Journal of Control Science and Engineering, 2012, 2012, 1-9.	1.0	3
34	An FNN-Based adaptive iterative learning control for a class of nonlinear discrete-time systems. , 2012, , .		3
35	An adaptive output regulation approach for formation control of heterogeneous multi-agent systems. , 2016, , .		3
36	FPGA-implemented corner feature extracting simultaneous localization and mapping. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Adaptive Iterative Learning Control for Freeway Traffic Flow Systems Using Improved Bacterial Foraging Optimized Desired Traffic Densities Planning. International Journal of Fuzzy Systems, 2017, 19, 1492-1511.	4.0	3
38	Hardware-Software Co-Design of an Image Feature Extraction and Matching Algorithm. , 2019, , .		3
39	HW/SW Co-design and FPGA Acceleration of a Feature-Based Visual Odometry. , 2019, , .		3
40	A New Adaptive Fuzzy Iterative Learning Control for Nonlinear Systems with Repeatable Control Tasks. , 0, , .		2
41	A One-Parameter Structure for Adaptive Iterative Learning Control of Robot Manipulators. , 2007, , .		2
42	An observer-based fuzzy neural network adaptive ILC for nonlinear systems. , 2013, , .		2
43	Terminal ILC design and analysis via a dynamical predictive model. , 2014, , .		2
44	An observer-based adaptive iterative learning controller for MIMO nonlinear systems with delayed output. , 2014, , .		2
45	Terminal iterative learning control for discrete-time nonlinear system based on neural networks. , 2015, , .		2
46	Design and Analysis of Adaptive Iterative Learning Control for Iteration-varying Nonlinear Systems. , 2018, , .		2
47	A Fuzzy System Based Iterative Learning Control for Nonlinear Discrete-Time Systems with Iteration-Varying Uncertainties. Processes, 2022, 10, 1275.	2.8	2
48	Application of iterative learning to tracking control of a piezoelectric system. , 0, , .		1
49	An observer-based model reference adaptive iterative learning controller for nonlinear systems without state measurement. , 2013, , .		1
50	On the fuzzy discrete-time AILC for a class of nonlinear MIMO systems. , 2013, , .		1
51	New solutions to the premature convergence problem in Monte Carlo localization. , 2016, , .		1
52	Adaptive fuzzy output regulation for formation control of unmanned surface vehicles. , 2017, , .		1
53	Progressive learning strategies for multi-class classification. , 2017, , .		1
54	On the robustness of discrete iterative learning control system against initial state error. , 2001, , .		1

#	ARTICLE	IF	CITATIONS
55	An adaptive PID-type iterative learning controller for unknown nonlinear systems with initial state errors. , 2003, , .		1
56	A design flow for linear-phase fixed-point FIR filters: from the NPRM specifications to a VHDL code. , 0, , .		0
57	Application of identification to tracking control of the piezoelectric system. , 0, , .		0
58	A new common-subexpression-sharing method for the synthesis of FIR filters. , 0, , .		0
59	B-Spline Network Based Iterative Learning for Tracking Control of a Piezoelectric Actuator. , 2006, , .		0
60	Reinforcement fuzzy-neural adaptive iterative learning control for nonlinear systems. , 2008, , .		0
61	Observer based adaptive control of nonlinear systems using filtered-FNN design. , 2012, , .		0
62	Model reference adaptive iterative learning control for nonlinear systems using observer design. , 2014, , .		0
63	Design of fuzzy adaptive iterative learning control for nonaffine nonlinear discrete-time systems. , 2015, , .		0
64	A novel terminal iterative learning control with high-order error information. , 2015, , .		0
65	A direct adaptive iterative learning control for nonaffine nonlinear discrete-time systems with unknown control directions. , 2016, , .		0
66	Study of a class of sampled-data ILC from the point of performance improvement and memory Capacity. , 2016, , .		0
67	Sampled-data iterative learning control for nonlinear systems with iteration varying lengths. , 2017, , .		0