David H Owens

List of Publications by Year
in descending order

57	1,598	304743	302126
papers	citations	22 h-index	39 g-index

57	57	57	613
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiperiodic Repetitive Control for Functional Electrical Stimulation-Based Wrist Tremor Suppression. IEEE Transactions on Control Systems Technology, 2022, 30, 1494-1509.	5.2	6
2	Constrained Iterative Learning Control for Linear Time-Varying Systems With Experimental Validation on a High-Speed Rack Feeder. IEEE Transactions on Control Systems Technology, 2022, 30, 1834-1846.	5.2	7
3	Multimuscle Functional-Electrical-Stimulation-Based Wrist Tremor Suppression Using Repetitive Control. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3988-3998.	5.8	6
4	Iterative Learning Control. , 2021, , 1-7.		0
5	Iterative Learning Control. , 2021, , 1059-1065.		0
6	Observer-based continuous adaptive sliding mode control for soft actuators. Nonlinear Dynamics, 2021, 105, 371-386.	5.2	16
7	Energyâ€based finiteâ€time stabilization and H_{â^ž} control of stochastic nonlinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 7169-7184.	3.7	7
8	Error Corrected References and Acceleration of Norm Optimal iterative Learning Control. , 2018, , .		1
9	Point-to-point ILC with accelerated convergence. , 2017, , .		1
10	Iterative Learning Control With Predictive Trial Information: Convergence, Robustness, and Experimental Verification. IEEE Transactions on Control Systems Technology, 2016, 24, 1101-1108.	5.2	35
11	Iterative Learning Control. Advances in Industrial Control, 2016, , .	0.5	60
12	A Novel Design Framework for Point-to-Point ILC Using Successive Projection. IEEE Transactions on Control Systems Technology, 2015, 23, 1156-1163.	5.2	40
13	Predictive gradient iterative learning control. , 2015, , .		0
14	Generalized norm optimal iterative learning control with intermediate point and sub-interval tracking. International Journal of Automation and Computing, 2015, 12, 243-253.	4.5	14
15	Iterative Learning Control. , 2015, , 598-605.		5
16	Influence of Nonminimum Phase Zeros on the Performance of Optimal Continuous-Time Iterative Learning Control. IEEE Transactions on Control Systems Technology, 2014, 22, 1151-1158.	5.2	14
17	Combined inverse and gradient iterative learning control: performance, monotonicity, robustness and nonâ€minimumâ€phase zeros. International Journal of Robust and Nonlinear Control, 2014, 24, 406-431.	3.7	4
18	An inverse-model approach to multivariable norm optimal iterative learning control with auxiliary optimisation. International Journal of Control, 2014, 87, 1646-1671.	1.9	29

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19	Norm-Optimal Iterative Learning Control With Intermediate Point Weighting: Theory, Algorithms, and Experimental Evaluation. IEEE Transactions on Control Systems Technology, 2013, 21, 999-1007.	5.2	71
20	Norm optimal Iterative Learning Control with auxiliary optimization - An inverse model approach. , 2013, , .		3
21	Multivariable norm optimal iterative learning control with auxiliary optimisation. International Journal of Control, 2013, 86, 1026-1045.	1.9	34
22	Norm Optimal Iterative Learning Control with Auxiliary Optimization: A Switching Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 140-145.	0.4	3
23	Norm Optimal Iterative Learning Control for Planar Tracking Tasks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 683-688.	0.4	6
24	Intermediate point norm optimal iterative learning control. , 2012, , .		0
25	Experimental verification of constrained iterative learning control using successive projection. , 2012, , .		2
26	Parameter-optimal iterative learning control using polynomial representations of the inverse plant. International Journal of Control, 2012, 85, 533-544.	1.9	34
27	Experimentally validated continuous-time repetitive control of non-minimum phase plants with a prescribed degree of stability. Control Engineering Practice, 2010, 18, 1158-1165.	5.5	10
28	Modelling of non-minimum phase effects in discrete-time norm optimal iterative learning control. International Journal of Control, 2010, 83, 2012-2027.	1.9	28
29	Norm-Optimal Iterative Learning Control with Application to Problems in Accelerator-Based Free Electron Lasers and Rehabilitation Robotics. European Journal of Control, 2010, 16, 497-522.	2.6	38
30	Iterative learning control for constrained linear systems. International Journal of Control, 2010, 83, 1397-1413.	1.9	74
31	Discrete Time Linear Optimal Repetitive Control - A Low Order Controller Scheme. , 2010, , .		2
32	Switched linear model predictive controllers for periodic exogenous signals. International Journal of Control, 2010, 83, 848-861.	1.9	16
33	Modeling the influence of non-minimum phase zeros on gradient based linear iterative learning control. , 2010, , .		0
34	Accelerated norm-optimal iterative learning control algorithms using successive projection. International Journal of Control, 2009, 82, 1469-1484.	1.9	42
35	Robustness analysis of an adjoint optimal iterative learning controller with experimental verification. International Journal of Robust and Nonlinear Control, 2008, 18, 1089-1113.	3.7	18
36	An Optimality-Based Repetitive Control Algorithm for Discrete-Time Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 412-423.	5.4	19

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37	Repetitive control of synchronized operations for process applications. International Journal of Adaptive Control and Signal Processing, 2007, 21, 300-325.	4.1	10
38	Norm-Optimal Iterative Learning Control Applied to Gantry Robots for Automation Applications. IEEE Transactions on Robotics, 2006, 22, 1303-1307.	10.3	96
39	H2 CONTROL OF DIFFERENTIAL LINEAR REPETITIVE PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 55-60.	0.4	3
40	P-type iterative learning control for systems that contain resonance. International Journal of Adaptive Control and Signal Processing, 2005, 19, 769-796.	4.1	43
41	Positive real control of two-dimensional systems: Roesser models and linear repetitive processes. International Journal of Control, 2003, 76, 1047-1058.	1.9	42
42	Stability analysis for a class of 2D continuousâ€“discrete linear systems with dynamic boundary conditions. Systems and Control Letters, 1999, 37, 55-60.	2.3	26
43	A formal theory of matrix primeness. Mathematics of Control, Signals, and Systems, 1998, 11, 40-78.	2.3	48
44	Predictive optimal iterative learning control. International Journal of Control, 1998, 69, 203-226.	1.9	211
45	Stability of a multi-input, multi-output adaptive iterative learning control system. , 1997, , .		5
46	Iterative learning control using optimal feedback and feedforward actions. International Journal of Control, 1996, 65, 277-293.	1.9	271
47	AnHâˆž approach to linear iterative learning control design. International Journal of Adaptive Control and Signal Processing, 1996, 10, 767-781.	4.1	65
48	Universal iterative learning control using adaptive highâ€gain feedback. International Journal of Adaptive Control and Signal Processing, 1993, 7, 383-388.	4.1	30
49	Threshold Switching Functions in High-Gain Adaptive Control. IMA Journal of Mathematical Control and Information, 1991, 8, 409-429.	1.7	7
50	Adaptive stabilization with exponential decay. Systems and Control Letters, 1990, 14, 437-443.	2.3	28
51	Low-gain control of unknown infinite-dimensional systems: a frequency-domain approach. Dynamical Systems, 1989, 4, 13-29.	0.7	20
52	Inputâ€output theory of highâ€gain adaptive stabilization of infiniteâ€dimensional systems with nonâ€linearities. International Journal of Adaptive Control and Signal Processing, 1988, 2, 193-216.	4.1	28
53	Robust High-gain Feedback Control of Infinite-Dimensional Minimum-Phase Systems. IMA Journal of Mathematical Control and Information, 1987, 4, 195-220.	1.7	19
54	Multivariable tuning regulators for infinite-dimensional systems with unbounded control and observation. , 1987, , .		1

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55	Modelling and robust stability in the internal model control system. , 1987, , .		0
56	Frequency domain robust stability conditions for multi-rate predictor control schemes. , 1986, , .		0
57	Multiple-time-scales in singularly perturbed systems. , 1985, , .		0