

# Richard W Longman

## List of Publications by Year in descending order

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46  
papers

2,057  
citations

566801

15  
h-index

433756

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g-index

48  
all docs

48  
docs citations

48  
times ranked

1011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of Sliding Mode ILC Design for a Class of Nonlinear Systems With Unknown Control Input Delay. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4346-4360.	7.2	6
2	Low-order sliding mode repetitive control for discrete-time systems under complex disturbance environment. International Journal of Robust and Nonlinear Control, 2021, 31, 5188-5217.	2.1	2
3	An adaptive smooth second-order sliding mode repetitive control method with application to a fast periodic stamping system. Systems and Control Letters, 2021, 151, 104912.	1.3	8
4	Iterative Learning Control Inverse Problem Using Harmonic Frequency Filters. Journal of the Astronautical Sciences, 2021, 68, 677-694.	0.8	2
5	Root Locus of Zeros of Discrete Time Systems as a Function of Sample Rate. Journal of the Astronautical Sciences, 2020, 67, 164-187.	0.8	0
6	Steady State Frequency Response Design of Finite Time Iterative Learning Control. Journal of the Astronautical Sciences, 2020, 67, 571-594.	0.8	1
7	State-Space System Identification Without a Hold Device by Lagrange Interpolation. Journal of the Astronautical Sciences, 2020, 67, 794-813.	0.8	0
8	A Novel Second Order Repetitive Control That Facilitates Stability Analysis and its Application to Magnetically Suspended Rotors. IEEE Access, 2019, 7, 149857-149866.	2.6	7
9	State-Space Model and Kalman Filter Gain Identification by a Kalman Filter of a Kalman Filter. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	12
10	Observer Kalman Filter Identification of Suspen-Dome. Mathematical Problems in Engineering, 2017, 2017, 1-9.	0.6	3
11	An All-Interaction Matrix Approach to Linear and Bilinear System Identification. , 2017, , 165-177.		1
12	Aiming for Maximum Tracking Accuracy in Repetitive Control Systems. , 2017, , 115-125.		1
13	Digital Repetitive Control of Periodic Coefficient Systems with Non-Integer Number of Times Steps per Period. , 2016, , .		0
14	Optimal bilinear observers for bilinear state-space models by interaction matrices. International Journal of Control, 2015, 88, 1504-1522.	1.2	19
15	Output-only observer/Kalman filter identification (O <sup>3</sup> KID). Structural Control and Health Monitoring, 2015, 22, 847-872.	1.9	43
16	Linear state representations for identification of bilinear discrete-time models by interaction matrices. Nonlinear Dynamics, 2014, 77, 1561-1576.	2.7	20
17	Small gain stability theory for matched basis function repetitive control. Acta Astronautica, 2014, 95, 260-271.	1.7	10
18	Robustification of iterative learning control and repetitive control by averaging. International Journal of Control, 2013, 86, 855-868.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Evaluation of Five Control Algorithms for Addressing CMG Induced Jitter on a Spacecraft Testbed. Journal of the Astronautical Sciences, 2013, 60, 434-467.	0.8	7
20	Iterative learning control: a method that can improve product quality and productivity in manufacturing. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2012, 35, 3-15.	0.6	2
21	Identification of discrete-time bilinear systems through equivalent linear models. Nonlinear Dynamics, 2012, 69, 2065-2078.	2.7	34
22	On the Theory and Design of Linear Repetitive Control Systems. European Journal of Control, 2010, 16, 447-496.	1.6	87
23	Time and Frequency Domain Evaluation of Settling Time in Repetitive Control. , 2008, , .		6
24	On the Ill-Conditioning in MPC when used to Address the Repetitive Control Problem. , 2008, , .		1
25	Using Kalman filter to attenuate noise in learning and repetitive control can easily degrade performance. , 2008, , .		9
26	Designing Learning Control that is Close to Instability for Improved Parameter Identification. , 2008, , 359-370.		1
27	Iterative learning control as a method of experiment design for improved system identification. Optimization Methods and Software, 2006, 21, 919-941.	1.6	5
28	Open-loop stable running. Robotica, 2005, 23, 21-33.	1.3	63
29	Morphing Mechanisms Part 2: Using Repetitive Control to Morph Cam Follower Motion. American Journal of Applied Sciences, 2005, 2, 904-909.	0.1	3
30	Repetitive Controller Design Using Optimization in the Frequency Domain. , 2004, , .		36
31	Intersample Error in Discrete Time Learning and Repetitive Control. , 2004, , .		10
32	Constructing Second-Order Models of Mechanical Systems from Identified State Space Realizations. Part I: Theoretical Discussions. Journal of Engineering Mechanics - ASCE, 2003, 129, 477-488.	1.6	50
33	The Phenomenon of Apparent Convergence Followed by Divergence in Learning and Repetitive Control. Intelligent Automation and Soft Computing, 2002, 8, 107-128.	1.6	35
34	Obtaining refined first-order predictive models of linear structural systems. Earthquake Engineering and Structural Dynamics, 2002, 31, 1413-1440.	2.5	35
35	On-line identification of non-linear hysteretic structural systems using a variable trace approach. Earthquake Engineering and Structural Dynamics, 2001, 30, 1279-1303.	2.5	121
36	Iterative learning control and repetitive control for engineering practice. International Journal of Control, 2000, 73, 930-954.	1.2	747

#	ARTICLE	IF	CITATIONS
37	A sliding-mode based smooth adaptive robust controller for friction compensation. International Journal of Robust and Nonlinear Control, 1998, 8, 725-739.	2.1	31
38	Computer-aided motion planning for satellite mounted robots. Mathematical Methods in the Applied Sciences, 1998, 21, 733-755.	1.2	11
39	Designing Iterative Learning and Repetitive Controllers. , 1998, , 107-146.		45
40	Comparison and combination of learning controllers - Computational enhancement and experiments. Journal of Guidance, Control, and Dynamics, 1996, 19, 1116-1123.	1.6	27
41	Identification of observer/Kalman filter Markov parameters - Theory and experiments. Journal of Guidance, Control, and Dynamics, 1993, 16, 320-329.	1.6	336
42	Discrete time learning control in nonlinear systems. , 1992, , .		14
43	Identification of observer/Kalman filter Markov parameters - Theory and experiments. , 1991, , .		45
44	Systematic design of robust control systems using small gain stability concepts. International Journal of Systems Science, 1988, 19, 439-451.	3.7	1
45	A mathematical theory of learning control for linear discrete multivariable systems. , 1988, , .		71
46	Repetitive Control Compensator Design for Frequency Response near Singularities. Journal of the Astronautical Sciences, 0, , 1.	0.8	1