

Chris T Freeman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,339
citations

22
h-index

34
g-index

101
ext. papers

1,749
ext. citations

3
avg, IF

5.02
L-index

#	Paper	IF	Citations
92	Iterative Learning Control for Robotic Path Following With Trial-Varying Motion Profiles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-10	5.5	4
91	Iterative Learning Control for Path-Following Tasks With Performance Optimization. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	4
90	Iterative learning control of functional electrical stimulation in the presence of voluntary user effort. <i>Control Engineering Practice</i> , 2020 , 96, 104303	3.9	2
89	Generalized iterative learning control with mixed system constraints: A gantry robot based verification. <i>Control Engineering Practice</i> , 2020 , 95, 104260	3.9	8
88	A decentralised iterative learning control framework for collaborative tracking. <i>Mechatronics</i> , 2020 , 72, 102465	3	0
87	Multichannel Biphasic Muscle Stimulation System for Post Stroke Rehabilitation. <i>Electronics (Switzerland)</i> , 2020 , 9, 1156	2.6	2
86	Decentralised Collaborative and Formation Iterative Learning Control for Multi-Agent Systems 2020 ,		1
85	Disturbance observer-based predictive repetitive control with constraints. <i>International Journal of Control</i> , 2020 , 1-10	1.5	1
84	Data-driven gradient-based point-to-point iterative learning control for nonlinear systems. <i>Nonlinear Dynamics</i> , 2020 , 102, 269-283	5	2
83	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2079-2091	4.8	8
82	A coordinate descent approach to optimal tracking time allocation in point-to-point ILC. <i>Mechatronics</i> , 2019 , 59, 25-34	3	7
81	Iterative Learning Control for Minimum Time Path Following. <i>IFAC-PapersOnLine</i> , 2019 , 52, 320-325	0.7	0
80	Decentralised Collaborative Iterative Learning Control for MIMO Multi-Agent Systems 2019 ,		2
79	Factors affecting rehabilitation and use of upper limb after stroke: views from healthcare professionals and stroke survivors. <i>Topics in Stroke Rehabilitation</i> , 2019 , 26, 94-100	2.6	7
78	Repetitive Control of Electrical Stimulation for Tremor Suppression. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 540-552	4.8	18
77	Upper limb and eye movement coordination during reaching tasks in people with stroke. <i>Disability and Rehabilitation</i> , 2018 , 40, 2424-2432	2.4	3
76	Point-to-Point Iterative Learning Control With Optimal Tracking Time Allocation. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1685-1698	4.8	22

75	Development of User-Friendly Wearable Electronic Textiles for Healthcare Applications. <i>Sensors</i> , 2018 , 18,	3.8	31
74	Model-Based Control of FES Embedding Simultaneous Volitional EMG Measurement 2018 ,		1
73	Iterative Learning Vector Field for FES-Supported Cyclic Upper Limb Movements in Combination with Robotic Weight Compensation 2018 ,		1
72	Modeling of Endpoint Feedback Learning Implemented Through Point-to-Point Learning Control. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1576-1585	4.8	5
71	Point-to-point iterative learning control with optimal tracking time allocation: A coordinate descent approach 2017 ,		2
70	Generalized Norm Optimal Iterative Learning Control: Constraint Handling. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13396-13401	0.7	5
69	Observer-based Predictive Repetitive Control with Experimental Validation. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3674-3679	0.7	
68	Multiple model switched repetitive control 2017 ,		2
67	Functional electrical stimulation for home-based upper-limb stroke rehabilitation. <i>Current Directions in Biomedical Engineering</i> , 2017 , 3, 25-29	0.5	3
66	Using Functional Electrical Stimulation Mediated by Iterative Learning Control and Robotics to Improve Arm Movement for People With Multiple Sclerosis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 235-48	4.8	60
65	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1101-1108	4.8	22
64	System identification for FES-based tremor suppression. <i>European Journal of Control</i> , 2016 , 27, 45-59	2.5	3
63	Control System Design for Electrical Stimulation in Upper Limb Rehabilitation 2016 ,		8
62	Design of a Hybrid Adaptive Support Device for FES Upper Limb Stroke Rehabilitation. <i>Mechanisms and Machine Science</i> , 2016 , 13-22	0.3	1
61	Modeling and Identification 2016 , 7-20		
60	Constrained ILC for Human Motor Control 2016 , 85-109		
59	Conclusions and Future Research Directions 2016 , 163-176		
58	Spatial path tracking using iterative learning control 2016 ,		3

57	Predictive iterative learning control with experimental validation. <i>Control Engineering Practice</i> , 2016 , 53, 24-34	3.9	18
56	Computational models of upper-limb motion during functional reaching tasks for application in FES-based stroke rehabilitation. <i>Biomedizinische Technik</i> , 2015 , 60, 179-91	1.3	10
55	Generalized norm optimal iterative learning control with intermediate point and sub-interval tracking. <i>International Journal of Automation and Computing</i> , 2015 , 12, 243-253	3.5	11
54	Multiple-Model Adaptive Control of Functional Electrical Stimulation. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1901-1913	4.8	23
53	Upper Limb Electrical Stimulation Using Input-Output Linearization and Iterative Learning Control. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1546-1554	4.8	32
52	A Novel Design Framework for Point-to-Point ILC Using Successive Projection. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1156-1163	4.8	26
51	Estimation based multiple model iterative learning control 2015 ,		2
50	Point-to-point iterative learning control with optimal tracking time allocation 2015 ,		6
49	Goal-Oriented Stroke Rehabilitation. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 93-116	0.4	
48	Conclusions and Further Research. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 117-120	0.4	
47	An inverse-model approach to multivariable norm optimal iterative learning control with auxiliary optimisation. <i>International Journal of Control</i> , 2014 , 87, 1646-1671	1.5	21
46	Electrode array-based electrical stimulation using ILC with restricted input subspace. <i>Control Engineering Practice</i> , 2014 , 23, 32-43	3.9	24
45	Assessment of gradient-based iterative learning controllers using a multivariable test facility with varying interaction. <i>Control Engineering Practice</i> , 2014 , 29, 158-173	3.9	6
44	Iterative Learning Control with Time Domain Prediction using Laguerre Functions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 395-400		
43	Influence of Nonminimum Phase Zeros on the Performance of Optimal Continuous-Time Iterative Learning Control. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1151-1158	4.8	9
42	2D systems based iterative learning control design for multiple-input multiple-output systems 2014 ,		2
41	Electrical stimulation and iterative learning control combined with real objects and simulated tasks to assist motor recovery in the upper extremity post-stroke 2014 ,		1
40	A common setting for the design of iterative learning and repetitive controllers with experimental verification. <i>International Journal of Adaptive Control and Signal Processing</i> , 2013 , 27, 230-249	2.8	11

39	Predictive-repetitive control with constraints: From design to implementation. <i>Journal of Process Control</i> , 2013 , 23, 956-967	3.9	28
38	Iterative Learning Control With Mixed Constraints for Point-to-Point Tracking. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 604-616	4.8	100
37	Norm-Optimal Iterative Learning Control With Intermediate Point Weighting: Theory, Algorithms, and Experimental Evaluation. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 999-1007	4.8	45
36	Norm optimal Iterative Learning Control with auxiliary optimization - An inverse model approach 2013 ,		3
35	Iterative Learning Control Based on Relaxed 2-D Systems Stability Criteria. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1016-1023	4.8	18
34	On on-line sampled-data optimal learning for dynamic systems with uncertainties 2013 ,		1
33	Multivariable norm optimal iterative learning control with auxiliary optimisation. <i>International Journal of Control</i> , 2013 , 86, 1026-1045	1.5	27
32	Recursive identification of Hammerstein systems with application to electrically stimulated muscle. <i>Control Engineering Practice</i> , 2012 , 20, 386-396	3.9	70
31	Constrained point-to-point iterative learning control with experimental verification. <i>Control Engineering Practice</i> , 2012 , 20, 489-498	3.9	58
30	Multivariable Repetitive-Predictive Controllers Using Frequency Decomposition. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1597-1604	4.8	25
29	ILC for FES-based stroke rehabilitation of hand and wrist 2012 ,		2
28	Robust higher order repetitive control applied to human tremor suppression 2012 ,		4
27	Convergence and robustness of a point-to-point iterative learning control algorithm 2012 ,		3
26	Assessment of gradient-based point-to-point ILC for MIMO systems with varying interaction 2012 ,		1
25	Functional electrical stimulation mediated by iterative learning control and 3D robotics reduces motor impairment in chronic stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 32	5.3	51
24	Experimentally validated repetitive-predictive control of a robot arm with constraints 2012 ,		1
23	Experimentally verified Iterative Learning Control based on repetitive process stability theory 2012 ,		1
22	A dual Iterative Learning Control loops for cascade systems 2012 ,		3

21	FES based rehabilitation of the upper limb using input/output linearization and ILC 2012 ,		11
20	Experimental verification of constrained iterative learning control using successive projection 2012 ,		2
19	Output Information Based Iterative Learning Control Law Design With Experimental Verification. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	22
18	A 2D systems approach to iterative learning control for discrete linear processes with zero Markov parameters. <i>International Journal of Control</i> , 2011 , 84, 1246-1262	1.5	14
17	Iterative Learning Control for Multiple Point-to-Point Tracking Application. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 590-600	4.8	56
16	Point-to-point iterative learning control with mixed constraints 2011 ,		9
15	Norm-Optimal Iterative Learning Control with Application to Problems in Accelerator-Based Free Electron Lasers and Rehabilitation Robotics. <i>European Journal of Control</i> , 2010 , 16, 497-522	2.5	31
14	On structure selection for multivariable repetitive-predictive controllers 2010 ,		2
13	Experimentally supported 2D systems based iterative learning control law design for error convergence and performance. <i>Control Engineering Practice</i> , 2010 , 18, 339-348	3.9	140
12	Identification of electrically stimulated muscle models of stroke patients. <i>Control Engineering Practice</i> , 2010 , 18, 396-407	3.9	76
11	Iterative Learning Control based on strong practical stability of repetitive processes 2009 ,		1
10	Repetitive process based iterative learning control designed by LMIs and experimentally verified on a gantry robot 2009 ,		4
9	Iterative Learning Control for multiple point-to-point tracking 2009 ,		2
8	Objective-driven ilc for point-to-point movement tasks 2009 ,		4
7	A model of the upper extremity using FES for stroke rehabilitation. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 031011	2.1	49
6	Design & control of an upper arm fes workstation for rehabilitation 2009 ,		4
5	Upper limb rehabilitation of stroke participants using electrical stimulation: Changes in tracking and EMG timing 2009 ,		4
4	An Optimality-Based Repetitive Control Algorithm for Discrete-Time Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 412-423	3.9	15

3	Using 2D systems theory to design output signal based iterative learning control laws with experimental verification 2008 ,	8
2	An Experimental Facility using Functional Electrical Stimulation for Stroke Rehabilitation of the Upper Limb 2007 ,	2
1	Reference Shift Iterative Learning Control for a Non-minimum Phase Plant. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2 1