

Chris T Freeman

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7326993/chris-t-freeman-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
91	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
90	Identification of electrically stimulated muscle models of stroke patients. <i>Control Engineering Practice</i> , 2010 , 18, 396-407	3.9	76
89	Recursive identification of Hammerstein systems with application to electrically stimulated muscle. <i>Control Engineering Practice</i> , 2012 , 20, 386-396	3.9	70
88	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
87	Constrained point-to-point iterative learning control with experimental verification. <i>Control Engineering Practice</i> , 2012 , 20, 489-498	3.9	58
86	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
85	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
84	A model of the upper extremity using FES for stroke rehabilitation. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 031011	2.1	49
83	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
82	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
81	Development of User-Friendly Wearable Electronic Textiles for Healthcare Applications. <i>Sensors</i> , 2018 , 18,	3.8	31
80	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
79	Predictive-repetitive control with constraints: From design to implementation. <i>Journal of Process Control</i> , 2013 , 23, 956-967	3.9	28
78	Multivariable norm optimal iterative learning control with auxiliary optimisation. <i>International Journal of Control</i> , 2013 , 86, 1026-1045	1.5	27
77	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
76	Multivariable Repetitive-Predictive Controllers Using Frequency Decomposition. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1597-1604	4.8	25

75	Electrode array-based electrical stimulation using ILC with restricted input subspace. <i>Control Engineering Practice</i> , 2014 , 23, 32-43	3.9	24
74	Multiple-Model Adaptive Control of Functional Electrical Stimulation. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1901-1913	4.8	23
73	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
72	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1101-1108	4.8	22
71	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
70	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
69	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
68	Predictive iterative learning control with experimental validation. <i>Control Engineering Practice</i> , 2016 , 53, 24-34	3.9	18
67	Repetitive Control of Electrical Stimulation for Tremor Suppression. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 540-552	4.8	18
66	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
65	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
64	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
63	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
62	FES based rehabilitation of the upper limb using input/output linearization and ILC 2012 ,		11
61	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
60	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
59	Point-to-point iterative learning control with mixed constraints 2011 ,		9
58	Control System Design for Electrical Stimulation in Upper Limb Rehabilitation 2016 ,		8

57	Using 2D systems theory to design output signal based iterative learning control laws with experimental verification 2008 ,		8
56	Generalized iterative learning control with mixed system constraints: A gantry robot based verification. <i>Control Engineering Practice</i> , 2020 , 95, 104260	3.9	8
55	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2079-2091	4.8	8
54	A coordinate descent approach to optimal tracking time allocation in point-to-point ILC. <i>Mechatronics</i> , 2019 , 59, 25-34	3	7
53	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
52	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
51	Point-to-point iterative learning control with optimal tracking time allocation 2015 ,		6
50	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
49	Generalized Norm Optimal Iterative Learning Control: Constraint Handling. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13396-13401	0.7	5
48	Robust higher order repetitive control applied to human tremor suppression 2012 ,		4
47	Repetitive process based iterative learning control designed by LMIs and experimentally verified on a gantry robot 2009 ,		4
46	Objective-driven ilc for point-to-point movement tasks 2009 ,		4
45	Design & control of an upper arm fes workstation for rehabilitation 2009 ,		4
44	Upper limb rehabilitation of stroke participants using electrical stimulation: Changes in tracking and EMG timing 2009 ,		4
43	Iterative Learning Control for Path-Following Tasks With Performance Optimization. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	4
42	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
41	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
40	System identification for FES-based tremor suppression. <i>European Journal of Control</i> , 2016 , 27, 45-59	2.5	3

39	Functional electrical stimulation for home-based upper-limb stroke rehabilitation. <i>Current Directions in Biomedical Engineering</i> , 2017 , 3, 25-29	0.5	3
38	Convergence and robustness of a point-to-point iterative learning control algorithm 2012 ,		3
37	Norm optimal Iterative Learning Control with auxiliary optimization - An inverse model approach 2013 ,		3
36	A dual Iterative Learning Control loops for cascade systems 2012 ,		3
35	Spatial path tracking using iterative learning control 2016 ,		3
34	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
33	Point-to-point iterative learning control with optimal tracking time allocation: A coordinate descent approach 2017 ,		2
32	Multiple model switched repetitive control 2017 ,		2
31	Estimation based multiple model iterative learning control 2015 ,		2
30	2D systems based iterative learning control design for multiple-input multiple-output systems 2014 ,		2
29	ILC for FES-based stroke rehabilitation of hand and wrist 2012 ,		2
28	On structure selection for multivariable repetitive-predictive controllers 2010 ,		2
27	Iterative Learning Control for multiple point-to-point tracking 2009 ,		2
26	Experimental verification of constrained iterative learning control using successive projection 2012 ,		2
25	An Experimental Facility using Functional Electrical Stimulation for Stroke Rehabilitation of the Upper Limb 2007 ,		2
24	Multichannel Biphasic Muscle Stimulation System for Post Stroke Rehabilitation. <i>Electronics (Switzerland)</i> , 2020 , 9, 1156	2.6	2
23	Data-driven gradient-based point-to-point iterative learning control for nonlinear systems. <i>Nonlinear Dynamics</i> , 2020 , 102, 269-283	5	2
22	Decentralised Collaborative Iterative Learning Control for MIMO Multi-Agent Systems 2019 ,		2

21	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
20	Assessment of gradient-based point-to-point ILC for MIMO systems with varying interaction 2012 ,		1
19	On on-line sampled-data optimal learning for dynamic systems with uncertainties 2013 ,		1
18	Iterative Learning Control based on strong practical stability of repetitive processes 2009 ,		1
17	Experimentally validated repetitive-predictive control of a robot arm with constraints 2012 ,		1
16	Experimentally verified Iterative Learning Control based on repetitive process stability theory 2012 ,		1
15	Reference Shift Iterative Learning Control for a Non-minimum Phase Plant. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	1
14	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
13	Decentralised Collaborative and Formation Iterative Learning Control for Multi-Agent Systems 2020 ,		1
12	Disturbance observer-based predictive repetitive control with constraints. <i>International Journal of Control</i> , 2020 , 1-10	1.5	1
11	Model-Based Control of FES Embedding Simultaneous Volitional EMG Measurement 2018 ,		1
10	Iterative Learning Vector Field for FES-Supported Cyclic Upper Limb Movements in Combination with Robotic Weight Compensation 2018 ,		1
9	A decentralised iterative learning control framework for collaborative tracking. <i>Mechatronics</i> , 2020 , 72, 102465	3	0
8	Iterative Learning Control for Minimum Time Path Following. <i>IFAC-PapersOnLine</i> , 2019 , 52, 320-325	0.7	0
7	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		
6	Observer-based Predictive Repetitive Control with Experimental Validation. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3674-3679	0.7	
5	Goal-Oriented Stroke Rehabilitation. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 93-116	0.4	
4	Conclusions and Further Research. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 117-120	0.4	

3 Modeling and Identification **2016**, 7-20

2 Constrained ILC for Human Motor Control **2016**, 85-109

1 Conclusions and Future Research Directions **2016**, 163-176