Eric Rogers

List of Publications by Citations

265	2,912	26	45
papers	citations	h-index	g-index
345	3,710	2.2	5.39
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
265	Iterative learning control using optimal feedback and feedforward actions. *International Journal of Control*, **1996**, 65, 277-293	1.5	204
264	Predictive optimal iterative learning control. *International Journal of Control*, **1998**, 69, 203-226	1.5	152
263	Experimentally supported 2D systems based iterative learning control law design for error convergence and performance. *Control Engineering Practice*, **2010**, 18, 339-348	3.9	140
262	A Cascade MPC Control Structure for a PMSM With Speed Ripple Minimization. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 2978-2987	8.9	110
261	Identification of electrically stimulated muscle models of stroke patients. *Control Engineering Practice*, **2010**, 18, 396-407	3.9	76
260	Recursive identification of Hammerstein systems with application to electrically stimulated muscle. *Control Engineering Practice*, **2012**, 20, 386-396	3.9	70
259	Norm-Optimal Iterative Learning Control Applied to Gantry Robots for Automation Applications. *IEEE Transactions on Robotics*, **2006**, 22, 1303-1307	6.5	69
258	Iterative learning fault-tolerant control for differential time-delay batch processes in finite frequency domains. *Journal of Process Control*, **2017**, 56, 112-128	3.9	57
257	Model predictive control of a permanent magnet synchronous motor with experimental validation. *Control Engineering Practice*, **2013**, 21, 1584-1593	3.9	57
256	Robust finite frequency range iterative learning control design and experimental verification. *Control Engineering Practice*, **2013**, 21, 1310-1320	3.9	56
255	Iterative Learning Control for Multiple Point-to-Point Tracking Application. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 590-600	4.8	56
254	Experimentally verified generalized KYP Lemma based iterative learning control design. *Control Engineering Practice*, **2016**, 53, 57-67	3.9	53
253	An H∞ approach to linear iterative learning control design. *International Journal of Adaptive Control and Signal Processing*, **1996**, 10, 767-781	2.8	53
252	The application of precisely controlled functional electrical stimulation to the shoulder, elbow and wrist for upper limb stroke rehabilitation: a feasibility study. *Journal of NeuroEngineering and Rehabilitation*, **2014**, 11, 105	5.3	51
251	Functional electrical stimulation mediated by iterative learning control and 3D robotics reduces motor impairment in chronic stroke. *Journal of NeuroEngineering and Rehabilitation*, **2012**, 9, 32	5.3	51
250	Explicit Model Predictive Control Approach for Low-Thrust Spacecraft Proximity Operations. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 1780-1790	2.1	50
249	A model of the upper extremity using FES for stroke rehabilitation. *Journal of Biomechanical Engineering*, **2009**, 131, 031011	2.1	49

248	International Journal of Control 50th Anniversary Editorial. *International Journal of Control*, **2015**, 88, 1-1	1.5	46
247	A formal theory of matrix primeness. *Mathematics of Control, Signals, and Systems*, **1998**, 11, 40-78	1.3	35
246	Positive real control of two-dimensional systems: Roesser models and linear repetitive processes. *International Journal of Control*, **2003**, 76, 1047-1058	1.5	35
245	P-type iterative learning control for systems that contain resonance. *International Journal of Adaptive Control and Signal Processing*, **2005**, 19, 769-796	2.8	32
244	Controllable and Autonomous nD Linear Systems. *Multidimensional Systems and Signal Processing*, **1999**, 10, 33-70	1.8	32
243	2D systems based robust iterative learning control using noncausal finite-time interval data. *Systems and Control Letters*, **2014**, 64, 36-42	2.4	31
242	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	2.5	31
241	Predictive-repetitive control with constraints: From design to implementation. *Journal of Process Control*, **2013**, 23, 956-967	3.9	28
240	Iterative learning control for a non-minimum phase plant based on a reference shift algorithm. *Control Engineering Practice*, **2008**, 16, 633-643	3.9	27
239	Performance-Enhanced Robust Iterative Learning Control With Experimental Application to PMSM Position Tracking. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1813-1819	4.8	26
238	Multivariable Repetitive-Predictive Controllers Using Frequency Decomposition. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 1597-1604	4.8	25
237	New 2D models and a transition matrix for discrete linear repetitive processes. *International Journal of Control*, **1999**, 72, 1365-1380	1.5	24
236	Dissipativity and stabilization of nonlinear repetitive processes. *Systems and Control Letters*, **2016**, 91, 14-20	2.4	24
235	Iterative learning control for robotic-assisted upper limb stroke rehabilitation in the presence of muscle fatigue. *Control Engineering Practice*, **2014**, 31, 63-72	3.9	23
234	Output Information Based Iterative Learning Control Law Design With Experimental Verification. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2012**, 134,	1.6	22
233	Robust H filtering for uncertain differential linear repetitive processes. *International Journal of Adaptive Control and Signal Processing*, **2008**, 22, 243-265	2.8	22
232	Design and Experimental Validation of an Adaptive Sliding Mode Observer-Based Fault-Tolerant Control for Underwater Vehicles. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 2655-2662	4.8	22
231	Stroke participants' perceptions of robotic and electrical stimulation therapy: a new approach. *Disability and Rehabilitation: Assistive Technology*, **2011**, 6, 130-8	1.8	21

230	Trajectory Tracking Control for Autonomous Underwater Vehicles Based on Fuzzy Re-Planning of a Local Desired Trajectory. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 11657-11667	6.8	21
229	PI control of discrete linear repetitive processes. *Automatica*, **2006**, 42, 877-880	5.7	20
228	Stability analysis for a class of 2D continuous discrete linear systems with dynamic boundary conditions. *Systems and Control Letters*, **1999**, 37, 55-60	2.4	20
227	Model predictive control of a hybrid autonomous underwater vehicle with experimental verification. *Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment*, **2014**, 228, 166-179	0.4	19
226	Iterative learning control 2D control systems from theory to application. *International Journal of Control*, **2004**, 77, 877-893	1.5	19
225	Terrain-aided navigation for long-endurance and deep-rated autonomous underwater vehicles. *Journal of Field Robotics*, **2018**, 36, 447	6.7	19
224	Iterative Learning Control Based on Relaxed 2-D Systems Stability Criteria. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 1016-1023	4.8	18
223	An approach to iterative learning control for spatio-temporal dynamics using nD discrete linear systems models. *Multidimensional Systems and Signal Processing*, **2011**, 22, 83-96	1.8	18
222	On the control of distributed parameter systems using a multidimensional systems setting. *Mechanical Systems and Signal Processing*, **2008**, 22, 1566-1581	7.8	18
221	Predictive iterative learning control with experimental validation. *Control Engineering Practice*, **2016**, 53, 24-34	3.9	18
220	KYP lemma based stability and control law design for differential linear repetitive processes with applications. *Systems and Control Letters*, **2013**, 62, 560-566	2.4	17
219	H 2/H output information-based disturbance attenuation for differential linear repetitive processes. *International Journal of Robust and Nonlinear Control*, **2011**, 21, 1981-1993	3.6	17
218	Stability of nonlinear discrete repetitive processes with Markovian switching. *Systems and Control Letters*, **2015**, 75, 108-116	2.4	16
217	New results on strong practical stability and stabilization of discrete linear repetitive processes. *Systems and Control Letters*, **2015**, 77, 22-29	2.4	16
216	Iterative Learning Control for Electrical Stimulation and Stroke Rehabilitation. *Springer Briefs in Electrical and Computer Engineering*, **2015**,	0.4	15
215	Repetitive process based design and experimental verification of a dynamic iterative learning control law. *Control Engineering Practice*, **2016**, 46, 157-165	3.9	15
214	Goal orientated stroke rehabilitation utilising electrical stimulation, iterative learning and Microsoft Kinect **2013**,		15
213	Switched linear model predictive controllers for periodic exogenous signals. *International Journal of Control*, **2010**, 83, 848-861	1.5	15

212	Control and filtering for discrete linear repetitive processes with ({fancyscript{H}_{infty}}) and 2 performance. *Multidimensional Systems and Signal Processing*, **2009**, 20, 235-264	1.8	15
211	An Optimality-Based Repetitive Control Algorithm for Discrete-Time Systems. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 412-423	3.9	15
210	A 2D systems approach to iterative learning control for discrete linear processes with zero Markov parameters. *International Journal of Control*, **2011**, 84, 1246-1262	1.5	14
209	Control theory for a class of 2D continuous-discrete linear systems. *International Journal of Control*, **2004**, 77, 847-860	1.5	14
208	Control law design for discrete linear repetitive processes with non-local updating structures. *Multidimensional Systems and Signal Processing*, **2013**, 24, 707-726	1.8	13
207	Strong practical stability and stabilization of discrete linear repetitive processes. *Multidimensional Systems and Signal Processing*, **2009**, 20, 311-331	1.8	13
206	Multi-machine operations modelled and controlled as switched linear repetitive processes. *International Journal of Control*, **2008**, 81, 1549-1567	1.5	12
205	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 2813-2826	3.9	12
204	A common setting for the design of iterative learning and repetitive controllers with experimental verification. *International Journal of Adaptive Control and Signal Processing*, **2013**, 27, 230-249	2.8	11
203	Iterative Learning Control for Improved Aerodynamic Load Performance of Wind Turbines With Smart Rotors. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 967-979	4.8	11
202	**2011**,		11
201	FES based rehabilitation of the upper limb using input/output linearization and ILC **2012**,		11
200	A Gradient-based Repetitive Control Algorithm Combining ILC and Pole Placement. *European Journal of Control*, **2006**, 12, 278-292	2.5	11
199	Terrain Aided Navigation for Long Range AUV operations at arctic latitudes **2016**,		11
198	Finite frequency range iterative learning fault-tolerant control for discrete time-delay uncertain systems with actuator faults. *ISA Transactions*, **2019**, 95, 152-163	5.5	10
197	Frequency domain Lyapunov equations and performance bounds for differential linear repetitive processes. *Systems and Control Letters*, **1995**, 26, 65-68	2.4	10
196	Failure identification for 3D linear systems. *Multidimensional Systems and Signal Processing*, **2015**, 26, 481-502	1.8	9
195	Modified Newton method based iterative learning control design for discrete nonlinear systems with constraints. *Systems and Control Letters*, **2018**, 118, 35-43	2.4	9

194	Vector Lyapunov Function based Stability of a Class of Applications Relevant 2D. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 8247-8252		9
193	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	4.8	9
192	Repetitive control of synchronized operations for process applications. *International Journal of Adaptive Control and Signal Processing*, **2007**, 21, 300-325	2.8	9
191	Robustness analysis of an adjoint optimal iterative learning controller with experimental verification. *International Journal of Robust and Nonlinear Control*, **2008**, 18, 1089-1113	3.6	9
190	PI output feedback control of differential linear repetitive processes. *Automatica*, **2008**, 44, 1442-1445	5.7	9
189	Exponential stability of discrete linear repetitive processes. *International Journal of Control*, **2002**, 75, 861-869	1.5	9
188	Extended state observer based indirect-type ILC for single-input single-output batch processes with time- and batch-varying uncertainties. *Automatica*, **2020**, 112, 108673	5.7	9
187	Iterative learning control applied to a non-linear vortex panel model for improved aerodynamic load performance of wind turbines with smart rotors. *International Journal of Control*, **2016**, 89, 55-68	1.5	8
186	Using 2D systems theory to design output signal based iterative learning control laws with experimental verification **2008**,		8
185	Simulation-based stability tests for differential unit memory linear multipass processes. *International Journal of Control*, **1990**, 51, 1051-1065	1.5	8
184	Passivity based stabilization of repetitive processes and iterative learning control design. *Systems and Control Letters*, **2018**, 122, 101-108	2.4	8
183	Stabilization of Two-Dimensional Nonlinear Systems Described by Fornasini--Marchesini and Roesser Models. *SIAM Journal on Control and Optimization*, **2018**, 56, 3848-3866	1.9	8
182	Observer-based iterative learning control design in the repetitive process setting * *This work is partially supported by National Science Centre in Poland, grant No. 2014/15/B/ST7/03208. *IFAC-PapersOnLine*, **2017**, 50, 13390-13395	0.7	7
181	Control of discrete linear repetitive processes using strong practical stability and disturbance attenuation. *Systems and Control Letters*, **2012**, 61, 1138-1144	2.4	7
180	Experimentally validated continuous-time repetitive control of non-minimum phase plants with a prescribed degree of stability. *Control Engineering Practice*, **2010**, 18, 1158-1165	3.9	7
179	Output feedback control of discrete linear repetitive processes. *Automatica*, **2004**, 40, 2167-2173	5.7	7
178	z - Transform and Volterra-Operator Based Approaches to Controllability and Observability Analysis for Discrete Linear Repetitive Processes. *Multidimensional Systems and Signal Processing*, **2003**, 14, 365-395	1.8	7
177	Co-operative Use of Marine Autonomous Systems to Enhance Navigational Accuracy of Autonomous Underwater Vehicles. *Lecture Notes in Computer Science*, **2016**, 275-281	0.9	7

176	Parameter-dependent Lyapunov function-based robust iterative learning control for discrete systems with actuator faults. *International Journal of Adaptive Control and Signal Processing*, **2016**, 30, 1714-1732	2.8	6
175	An unconditionally stable finite difference scheme systems described by second order partial differential equations **2015**,		6
174	Model Predictive Control of a Permanent Magnet Synchronous Motor **2011**,		6
173	Initial Input Selection for Iterative Learning Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2011**, 133,	1.6	6
172	Comments on "On the equivalence of causal LTI iterative learning control and feedback control" *Automatica*, **2004**, 40, 895-898	5.7	6
171	Lyapunov stability theory and performance bounds for a class of 2D linear systems. *Multidimensional Systems and Signal Processing*, **1996**, 7, 179-194	1.8	6
170	2D-transfer functions and stability tests for differential non-unit memory linear multipass processes. *International Journal of Control*, **1989**, 50, 651-666	1.5	6
169	Towards Arctic AUV Navigation. *IFAC-PapersOnLine*, **2018**, 51, 287-292	0.7	6
168	Control systems analysis for the Fornasini-Marchesini 2D systems model "progress after four decades. *International Journal of Control*, **2018**, 91, 2801-2822	1.5	6
167	Robust fault-tolerant iterative learning control for discrete systems via linear repetitive processes theory. *International Journal of Automation and Computing*, **2015**, 12, 254-265	3.5	5
166	Failure identification for linear repetitive processes. *Multidimensional Systems and Signal Processing*, **2015**, 26, 1037-1059	1.8	5
165	Iterative learning control with applications in energy generation, lasers and health care. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2016**, 472, 20150569	2.4	5
164	Strong practical stability and stabilization of uncertain discrete linear repetitive processes. *Numerical Linear Algebra With Applications*, **2013**, 20, 220-233	1.6	5
163	Stabilization of nonlinear 2D Fornasini-Marchesini and Roesser systems **2015**,		5
162	Multivariable Repetitive-predictive Control of a Robot Arm with Experimental Results. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 7672-7677		5
161	Modeling and control of a sorption process using 2D systems theory **2011**,		5
160	Repetitive process based iterative learning control design using frequency domain analysis **2012**,		5
159	LMI based stability and stabilization of second-order linear repetitive processes. *Asian Journal of Control*, **2010**, 12, 136-145	1.7	5

158	Stability theory and performance bounds for a class of two-dimensional linear systems with interpass smoothing effects. *IMA Journal of Mathematical Control and Information*, **1997**, 14, 415-427	1.1	5
157	A 2D Systems Approach to Iterative Learning Control with Experimental Validation. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 2832-2837		5
156	Stability conditions for a class of 2D continuous-discrete linear systems with dynamic boundary conditions. *International Journal of Control*, **2002**, 75, 52-60	1.5	5
155	Stability Analysis for Discrete Linear Multipass Processes with Non-Unit Memory. *IMA Journal of Mathematical Control and Information*, **1989**, 6, 399-409	1.1	5
154	Evaluation of terrain collision risks for flight style autonomous underwater vehicles **2016**,		5
153	Characterization of a class of spatially interconnected systems (ladder circuits) using two-dimensional systems theory. *Multidimensional Systems and Signal Processing*, **2019**, 30, 2185-2197	1.8	4
152	Dissipativity of Nonlinear 2D Systems. *IFAC-PapersOnLine*, **2015**, 48, 784-789	0.7	4
151	Robustness and load disturbance conditions for state based iterative learning control. *Optimal Control Applications and Methods*, **2018**, 39, 1965-1975	1.7	4
150	Stability and Stabilization of Differential Nonlinear Repetitive Processes with Applications. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 5467-5472		4
149	Electrical stimulation and iterative learning control for functional recovery in the upper limb post-stroke. *IEEE International Conference on Rehabilitation Robotics*, **2013**, 2013, 6650359	1.3	4
148	Experimental Evaluation of Automatic Tuning of PID Controllers for an Electro-Mechanical System. *IFAC-PapersOnLine*, **2017**, 50, 3063-3068	0.7	4
147	Robust higher order repetitive control applied to human tremor suppression **2012**,		4
146	Modelling and Control of Bi-Directional Discrete Linear Repetitive Processes. *IEEE Transactions on Automatic Control*, **2010**, 55, 230-235	5.9	4
145	Repetitive process based iterative learning control designed by LMIs and experimentally verified on a gantry robot **2009**,		4
144	Objective-driven ilc for point-to-point movement tasks **2009**,		4
143	Design & control of an upper arm fes workstation for rehabilitation **2009**,		4
142	Upper limb rehabilitation of stroke participants using electrical stimulation: Changes in tracking and EMG timing **2009**,		4
141	Stability tests and performance bounds for a class of 2D linear systems. *Multidimensional Systems and Signal Processing*, **1993**, 4, 355-391	1.8	4

140	Iterative learning control design based on feedback linearization and nonlinear repetitive process stability theory **2016**,		4
139	Two-dimensional (2D) systems approach to feedforward/feedback control of a class of spatially interconnected systems. *International Journal of Control*, **2018**, 91, 2780-2791	1.5	4
138	Model predictive resonant control of a three-phase voltage source converter with selective harmonic compensation **2015**,		3
137	Equivalent 2-D nonsingular Roesser models for discrete linear repetitive processes. *International Journal of Control*, **2018**, 91, 2673-2681	1.5	3
136	Parameter-Dependent Lyapunov Functions in the Robust Control of Discrete Linear Repetitive Processes Using Previous Pass-Windowed Information. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, **2015**, 1,	1.4	3
135	Iterative learning control under parameter uncertainty and failures **2012**,		3
134	Control of differential linear repetitive processes using strong practical stability and H disturbance attenuation. *International Journal of Control*, **2013**, 86, 636-649	1.5	3
133	Upper limb stroke rehabilitation: the effectiveness of Stimulation Assistance through Iterative Learning (SAIL). *IEEE International Conference on Rehabilitation Robotics*, **2011**, 2011, 5975502	1.3	3
132	Singular 2D Behaviors: Fornasini Marchesini and Givone Roesser Models. *Georgian Mathematical Journal*, **2009**, 16, 105-130	0.5	3
131	Relaxed pass profile controllability of discrete linear repetitive processes. *International Journal of Control*, **2006**, 79, 938-958	1.5	3
130	One-Dimensional Equivalent Model and Related Approaches to the Analysis of Discrete Nonunit Memory Linear Repetitive Processes. *Circuits, Systems, and Signal Processing*, **2002**, 21, 525-534	2.2	3
129	Structure indices for multidimensional systems. *IMA Journal of Mathematical Control and Information*, **2000**, 17, 227-256	1.1	3
128	H-infinity-norm minimisation and the stabilisation of systems with repetitive dynamics. *Transactions of the Institute of Measurement and Control*, **1992**, 14, 126-129	1.8	3
127	Iterative Learning Control for a Class of Multivariable Distributed Systems With Experimental Validation. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 949-960	4.8	3
126	A frequency-partitioning approach to robust output control of uncertain discrete linear repetitive processes **2016**,		3
125	An unconditionally stable approximation of a circular flexible plate described by a fourth order partial differential equation **2016**,		3
124	Application of a Frequency-Discretization Technique for Stability and Control of Uncertain Differential Linear Repetitive Processes **2018**,		3
123	Repetitive process based stochastic iterative learning control design for linear dynamics. *Systems and Control Letters*, **2020**, 137, 104625	2.4	2

122	Experimental analysis of low-altitude terrain following for hover-capable flight-style autonomous underwater vehicles. *Journal of Field Robotics*, **2019**, 36, 1399-1421	6.7	2
121	Passivity based stabilization of nonlinear 2D systems with application to iterative learning control **2014**,		2
120	**2017**,		2
119	Reduction of discrete linear repetitive processes to nonsingular Roesser models via elementary operations * *The authors wish to express their thanks to Sultan Qaboos University (Oman) for their support in carrying out this research work. Also, this work is partially supported by National Science Centre in Poland, grant No. 2015/17/B/ST7/03703. *IFAC-PapersOnLine*, **2017**, 50, 1865-1870	0.7	2
118	Higher-order Iterative Learning Control Law Design using Linear Repetitive Process Theory: Convergence and Robustness. *IFAC-PapersOnLine*, **2017**, 50, 3123-3128	0.7	2
117	Reduction of wave linear repetitive processes to singular Roesser model form **2017**,		2
116	Exponential stability and stabilization of nD systems **2015**,		2
115	H□based stabilization and disturbance attenuation for nonlinear differential repetitive processes with an iterative learning control application **2014**,		2
114	2D systems based iterative learning control design for multiple-input multiple-output systems **2014** ,		2
113	ILC for FES-based stroke rehabilitation of hand and wrist **2012**,		2
112	Repetitive Process Control Theory Applied to the Modeling and Control of Ladder Circuits. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 689-694		2
111	Surface Electrode Array Based Control of the Wrist and Hand. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 164-169		2
110	On the design of ILC schemes for finite frequency range tracking specifications **2010**,		2
109	On structure selection for multivariable repetitive-predictive controllers **2010**,		2
108	2D systems theory applied to iterative learning control of spatio-temporal dynamics **2010**,		2
107	Design of robust iterative learning control schemes in a finite frequency range **2011**,		2
106	Iterative Learning Control for wave linear repetitive processes **2009**,		2
105	Iterative Learning Control for multiple point-to-point tracking **2009**,		2

104	Absolute stability and stabilization of 2D Roesser systems with nonlinear output feedback **2011**,		2
103	Experimental verification of constrained iterative learning control using successive projection **2012** ,		2
102	Stability of a class of 2D linear systems with smoothing **2009**,		2
101	Strong practical stability and stabilization of differential linear repetitive processes. *Systems and Control Letters*, **2010**, 59, 639-644	2.4	2
100	Minimum lag descriptions and minimal Gröbner bases. *Systems and Control Letters*, **1998**, 34, 289-293	2.4	2
99	An Experimental Facility using Functional Electrical Stimulation for Stroke Rehabilitation of the Upper Limb **2007**,		2
98	A New Iterative Learning Control Scheme for Linear Time-varying Discrete Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 279-282		2
97	Control Law Design for Switched Repetitive Processes with a Metal Rolling Example. *Control Applications (CCA), Proceedings of the IEEE International Conference on*, **2007**,		2
96	An algebraic approach to the control of spatially distributed systems: (2+1)D case with a deformable mirror example **2007**,		2
95	Error actuated output feedback control theory for differential linear repetitive processes. *International Journal of Control*, **1995**, 61, 981-997	1.5	2
94	Stability of discrete non-unit memory linear repetitive processes: a two-dimensional systems interpretation. *International Journal of Control*, **1996**, 63, 457-482	1.5	2
93	Output-feedback control of discrete linear repetitive processes. *IMA Journal of Mathematical Control and Information*, **1993**, 10, 177-193	1.1	2
92	Iterative Learning Control for a discretized sub-class of spatially interconnected systems. *Advances in Intelligent Systems and Computing*, **2017**, 744-753	0.4	2
91	Robust finite frequency design of iterative learning control schemes. *IFAC-PapersOnLine*, **2016**, 49, 169-174	0.7	2
90	Broiler FCR Optimization Using Norm Optimal Terminal Iterative Learning Control. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 580-592	4.8	2
89	Terrain-aided navigation for long-range AUVs in dynamic under-mapped environments. *Journal of Field Robotics*, **2021**, 38, 402-428	6.7	2
88	Terrain-Aided Navigation With Coarse Maps: Toward an Arctic Crossing With an AUV. *IEEE Journal of Oceanic Engineering*, **2021**, 1-21	3.3	2
87	Iterative learning control for stroke rehabilitation with input dependent muscle fatigue modeling **2018**,		2

86	Iterative Learning Control: An Overview. *Springer Briefs in Electrical and Computer Engineering*, **2015**, 3-16	0.4	2
85	Load reduction in wind turbines with smart rotors using trial varying iterative learning control law **2017**,		1
84	A practically tractable iterative learning control scheme for a circular deformable mirror **2017**,		1
83	New results on higher-order iterative learning control for discrete linear systems **2017**,		1
82	Modeling and Iterative Learning Control of a Circular Deformable Mirror. *IFAC-PapersOnLine*, **2017**, 50, 3117-3122	0.7	1
81	Pass profile exponential and asymptotic stability of nonlinear repetitive processes * *This work was supported in part by Russian Foundation for Basic Research under grants 16-08-00916_a, 16-38-00304_mol_a and in part by National Science Center in Poland under grant 2015/17/B/ST7/03703.. *IFAC-PapersOnLine*, **2017**, 50, 4138-4143	0.7	1
80	Trajectory tracking control integrating local trajectory re-planning for autonomous underwater vehicle **2017**,		1
79	Reducing conservativeness in robust iterative learning control (ILC) design using parameter-dependent Lyapunov functions **2015**,		1
78	Design of iterative learning control algorithms by generalized KYP synthesis **2014**,		1
77	New frequency domain based stability tests for 2D linear systems **2012**,		1
76	Finite frequency domain design of dynamic controllers for differential linear repetitive processes **2013**,		1
75	New KYP lemma based stability tests and control law design algorithms for differential linear repetitive processes **2013**,		1
74	Stability and robustness of discrete linear repetitive processes in the finite frequency domain using the KYP lemma **2013**,		1
73	Recursive Identification of Hammerstein Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 13954-13959		1
72	SAIL: A 3D rehabilitation system to improve arm function following stroke. *Progress in Neurology and Psychiatry*, **2011**, 15, 6-10	0.8	1
71	On controllability and control laws for discrete linear repetitive processes. *International Journal of Control*, **2010**, 83, 66-73	1.5	1
70	On the stability and control of discrete linear systems with clock synchronisation errors. *International Journal of Control*, **2011**, 84, 1491-1499	1.5	1
69	Iterative Learning Control based on strong practical stability of repetitive processes **2009**,		1

68	Stability and robustness of systems with synchronization errors **2009**,		1
67	Finite frequency range control law synthesis for differential linear repetitive processes **2011**,		1
66	Experimentally validated repetitive-predictive control of a robot arm with constraints **2012**,		1
65	Experimentally verified Iterative Learning Control based on repetitive process stability theory **2012** ,		1
64	Effect of measurement noise on the performance of a depth and pitch controller using the model predictive control method **2012**,		1
63	Parametrization based synthesis of static feedback stabilizing controllers for uncertain discrete linear repetitive processes **2009**,		1
62	A MATLAB Toolbox for Finding Stabilizing Controllers for a Class of Switched Systems **2008**,		1
61	Strong practical stability and stabilization of 2D differential-discrete linear systems **2008**,		1
60	Singular 2D Behaviors: Homologies. *Georgian Mathematical Journal*, **2008**, 15, 139-157	0.5	1
59	Repetitive and Iterative Learning Controllers Designed by Duality with Experimental Verification. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 3562-3567		1
58	Observer-based control of differential linear repetitive processes **2007**,		1
57	On control laws for discrete linear repetitive processes with dynamic boundary conditions. *Multidimensional Systems and Signal Processing*, **2008**, 19, 477-488	1.8	1
56	Optimal control of wave linear repetitive processes. *Systems and Control Letters*, **2008**, 57, 940-945	2.4	1
55	Comparing the performance of two iterative Learning Controllers with optimal feedback control **2006**,		1
54	Reference Shift Iterative Learning Control for a Non-minimum Phase Plant. *Proceedings of the American Control Conference*, **2007**,	1.2	1
53	H2 CONTROL OF DIFFERENTIAL LINEAR REPETITIVE PROCESSES. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 55-60		1
52	Stability of linear repetitive processes□ delay□differential systems interpretation. *IMA Journal of Mathematical Control and Information*, **1995**, 12, 69-90	1.1	1
51	New stability tests and performance bounds for differential linear repetitive processes. *International Journal of Control*, **1992**, 56, 831-856	1.5	1

50	Constrained Iterative Learning Control for Linear Time-Varying Systems With Experimental Validation on a High-Speed Rack Feeder. *IEEE Transactions on Control Systems Technology*, **2021**, 1-13	4.8	1
49	Application of the Dynamic Iterative Learning Control to the Heteroplanar Active Magnetic Bearing. *IFAC-PapersOnLine*, **2020**, 53, 1511-1516	0.7	1
48	A New LMI-Based Controller Design Method for Uncertain Differential Repetitive Processes. *Advances in Intelligent Systems and Computing*, **2020**, 184-196	0.4	1
47	Disturbance observer-based predictive repetitive control with constraints. *International Journal of Control*, **2020**, 1-10	1.5	1
46	Terminal sliding mode-based tracking control with error transformation for underwater vehicles. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 7186-7206	3.6	1
45	LMI-based gain scheduled ILC design for linear parameter-varying systems **2016**,		1
44	Analysis of Performance Indices for Simulated Skeleton Descents. *Procedia Engineering*, **2016**, 147, 712-717		1
43	Stability and stabilization of the subclass of 2D systems modeled as descriptor systems **2016**,		1
42	2D Systems based Dynamic Iterative Learning Control Design with Experimental Validation on a 3D Crane Model. *IFAC-PapersOnLine*, **2019**, 52, 332-337	0.7	1
41	Design of iterative learning control schemes for spatially interconnected systems **2019**,		1
40	Experimentally verified multi-objective iterative learning control design with frequency domain specifications **2018**,		1
39	Dynamic Modeling and Computed Torque Control of Flexure Jointed TVC Systems **2018**,		1
38	Broiler Growth Optimization Using Norm Optimal Terminal Iterative Learning Control **2018**,		1
37	Iterative learning control of a distributed heating system described by a non-minimum phase model **2018**,		1
36	Dynamic Output-Only Iterative Learning Control Design. *IEEE Access*, **2021**, 1-1	3.5	0
35	Iterative Learning Control with Input Saturation. *IFAC-PapersOnLine*, **2019**, 52, 338-343	0.7	0
34	Constructing the Singular Roesser State-Space Model Description of 3D Spatio-Temporal Dynamics From the Polynomial System Matrix. *IEEE Access*, **2021**, 9, 45632-45641	3.5	0
33	Stability analysis of 2D Roesser systems via vector Lyapunov functions. *IFAC-PapersOnLine*, **2017**, 50, 4126-4131	0.7	

32	ILC Based Upper-Limb Rehabilitation Planar Tasks. *Springer Briefs in Electrical and Computer Engineering*, **2015**, 25-61	0.4
31	Iterative Learning Control with Time Domain Prediction using Laguerre Functions. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 395-400	
30	Observer-based Predictive Repetitive Control with Experimental Validation. *IFAC-PapersOnLine*, **2017**, 50, 3674-3679	0.7
29	Stability and Stabilization of Nonlinear 2D Markovian Jump Systems with Applications. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 695-700	
28	Iterative Learning Control Design for Stability and Transient Performance Using Differential Linear Repetitive Process Stability Theory. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 152-157	
27	Robust Stabilization of Repetitive Processes with Possible Failures?. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 2344-2349	
26	Predictive Iterative Learning Control using Laguerre Functions. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 5747-5752	
25	Application of Newton-method Based ILC to 3D Stroke Rehabilitation. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 4851-4856	
24	Efficacy of iterative learning control for stroke rehabilitation. *Progress in Neurology and Psychiatry*, **2009**, 13, 16-20	0.8
23	On the Development of SCILAB Compatible Software for the Analysis and Control of Repetitive Processes. *International Journal of Applied Mathematics and Computer Science*, **2008**, 18, 377-387	1.7
22	Decoupling and iterative approaches to the control of discrete linear repetitive processes. *Multidimensional Systems and Signal Processing*, **2007**, 18, 249-272	1.8
21	Robotic trajectory tracking for neurological rehabilitation. *Progress in Neurology and Psychiatry*, **2008**, 12, 22-24	0.8
20	CONTROLLABILITY AND QUADRATIC STABILIZATION OF A CLASS OF DISCRETE LINEAR REPETITIVE PROCESSES. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 320-325	
19	Stability and stabilisation of acausal discrete linear repetitive processes. *Proceedings in Applied Mathematics and Mechanics*, **2005**, 5, 155-156	0.2
18	Signal-processing-based performance measures for differential linear repetitive processes. *International Journal of Adaptive Control and Signal Processing*, **1994**, 8, 553-572	2.8
17	Simulation-based stability tests and performance bounds for differential non-unit memory linear repetitive processes. *International Journal of Control*, **1992**, 56, 581-606	1.5
16	Modelling and stability analysis for a class of industrial repetitive processes. *International Journal of Control*, **1990**, 52, 265-278	1.5
15	New relaxed stability and stabilization conditions for differential linear repetitive processes. *IFAC-PapersOnLine*, **2020**, 53, 1462-1467	0.7

14	Iterative Learning Control for Switched Systems in the Presence of Input Saturation. *IFAC-PapersOnLine*, **2020**, 53, 1444-1449	0.7
13	Disturbance Observer Based Repetitive Control System with Non-minimal State Space Realization and Anti-windup Mechanism. *IFAC-PapersOnLine*, **2020**, 53, 1505-1510	0.7
12	Parallel algorithms for the design of control schemes. *Computing & Control Engineering Journal*, **1991**, 2, 180	
11	Goal-Oriented Stroke Rehabilitation. *Springer Briefs in Electrical and Computer Engineering*, **2015**, 93-116	0.4
10	Iterative Learning Control of the Unconstrained Upper Limb. *Springer Briefs in Electrical and Computer Engineering*, **2015**, 63-91	0.4
9	Evaluating the Capabilities of a Flight-Style Swarm AUV to Perform Emergent and Adaptive Behaviours. *Lecture Notes in Computer Science*, **2017**, 237-246	0.9
8	Learning filter design for ILC schemes using FIR approximation over a finite frequency range. *Advances in Intelligent Systems and Computing*, **2017**, 754-763	0.4
7	Iterative Learning Control for a class of spatially interconnected systems. *Advances in Intelligent Systems and Computing*, **2017**, 734-743	0.4
6	Control Laws for Discrete Linear Repetitive Processes with Smoothed Previous Pass Dynamics **2010** , 175-193	
5	Robust Control of Discrete Linear Repetitive Processes with Parameter Varying Uncertainty. *Lecture Notes in Electrical Engineering*, **2011**, 165-183	0.2
4	Progress and Open Questions in the Identification of Electrically Stimulated Human Muscle for Stroke Rehabilitation **2012**, 293-318	
3	Modeling and iterative learning control of spatially distributed parameter systems with sensing and actuation over a selected area of the domain. *Multidimensional Systems and Signal Processing*, **2021**, 32, 1237-1258	1.8
2	Iterative Learning Control as an Enabler for Robotic-Assisted Upper Limb Stroke Rehabilitation. *Studies in Systems, Decision and Control*, **2016**, 157-187	0.8
1	New relaxed stability and stabilization conditions for both discrete and differential linear repetitive processes. *Multidimensional Systems and Signal Processing*,1	1.8