

Krzysztof Galkowski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9321721/publications.pdf>

Version: 2024-02-01

291
papers

3,056
citations

201385

27
h-index

233125

45
g-index

298
all docs

298
docs citations

298
times ranked

818
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentally supported 2D systems based iterative learning control law design for error convergence and performance. <i>Control Engineering Practice</i> , 2010, 18, 339-348.	3.2	186
2	Robust stability and stabilisation of 2D discrete state-delayed systems. <i>Systems and Control Letters</i> , 2004, 51, 277-291.	1.3	156
3	LMIs - a fundamental tool in analysis and controller design for discrete linear repetitive processes. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002, 49, 768-778.	0.1	94
4	Robust finite frequency range iterative learning control design and experimental verification. <i>Control Engineering Practice</i> , 2013, 21, 1310-1320.	3.2	87
5	Multidimensional control systems: case studies in design and evaluation. <i>Multidimensional Systems and Signal Processing</i> , 2015, 26, 895-939.	1.7	85
6	Iterative learning fault-tolerant control for differential time-delay batch processes in finite frequency domains. <i>Journal of Process Control</i> , 2017, 56, 112-128.	1.7	81
7	Experimentally verified generalized KYP Lemma based iterative learning control design. <i>Control Engineering Practice</i> , 2016, 53, 57-67.	3.2	76
8	Positive real control for uncertain two-dimensional systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002, 49, 1659-1666.	0.1	70
9	Stability and control of differential linear repetitive processes using an LMI setting. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2003, 50, 662-666.	2.3	68
10	Robust output feedback stabilization for two-dimensional continuous systems in roesser form. <i>Applied Mathematics Letters</i> , 2004, 17, 1331-1341.	1.5	57
11	Performance-Enhanced Robust Iterative Learning Control With Experimental Application to PMSM Position Tracking. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1813-1819.	3.2	52
12	Robust iterative learning control for batch processes with input delay subject to time-varying uncertainties. <i>IET Control Theory and Applications</i> , 2016, 10, 1904-1915.	1.2	49
13	Iterative learning control for spatio-temporal dynamics using Crank-Nicholson discretization. <i>Multidimensional Systems and Signal Processing</i> , 2012, 23, 185-208.	1.7	43
14	Positive real control of two-dimensional systems: Roesser models and linear repetitive processes. <i>International Journal of Control</i> , 2003, 76, 1047-1058.	1.2	42
15	LMI approach to state-feedback stabilization of multidimensional systems. <i>International Journal of Control</i> , 2003, 76, 1428-1436.	1.2	41
16	2D systems based robust iterative learning control using noncausal finite-time interval data. <i>Systems and Control Letters</i> , 2014, 64, 36-42.	1.3	40
17	Dissipativity and stabilization of nonlinear repetitive processes. <i>Systems and Control Letters</i> , 2016, 91, 14-20.	1.3	40
18	LMI based stability analysis and robust controller design for discrete linear repetitive processes. <i>International Journal of Robust and Nonlinear Control</i> , 2003, 13, 1195-1211.	2.1	39

#	ARTICLE	IF	CITATIONS
19	Output Information Based Iterative Learning Control Law Design With Experimental Verification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	36
20	Elementary operation approach to state-space realizations of 2-D systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 120-129.	0.1	35
21	Stability and controllability of a class of 2-D linear systems with dynamic boundary conditions. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 181-195.	0.1	33
22	Output feedback control of discrete linear repetitive processes. Automatica, 2004, 40, 2167-2173.	3.0	32
23	Stability of nonlinear 2D systems described by the continuous-time Roesser model. Automation and Remote Control, 2014, 75, 845-858.	0.4	31
24	Matrix rank based conditions for reachability/controllability of discrete linear repetitive processes. Linear Algebra and Its Applications, 1998, 275-276, 201-224.	0.4	30
25	Robust guaranteed cost ILC with dynamic feedforward and disturbance compensation for accurate PMSM position control. Control Engineering Practice, 2017, 65, 36-47.	3.2	30
26	New 2D models and a transition matrix for discrete linear repetitive processes. International Journal of Control, 1999, 72, 1365-1380.	1.2	28
27	A Constructive Approach to Stabilizability and Stabilization of a Class of nD Systems. Multidimensional Systems and Signal Processing, 2001, 12, 329-343.	1.7	28
28	LMI based stability analysis for 2D continuous systems. , 0, , .		28
29	PI control of discrete linear repetitive processes. Automatica, 2006, 42, 877-880.	3.0	28
30	Robust \hat{a}_{∞} filtering for uncertain differential linear repetitive processes. International Journal of Adaptive Control and Signal Processing, 2008, 22, 243-265.	2.3	28
31	Guaranteed Cost Control of Uncertain Differential Linear Repetitive Processes. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 629-634.	2.3	27
32	The state-space realization of ann-dimensional transfer function. International Journal of Circuit Theory and Applications, 1981, 9, 189-197.	1.3	24
33	Output feedback control of discrete linear repetitive processes. Automatica, 2004, 40, 2167-2173.	3.0	24
34	KYP lemma based stability and control law design for differential linear repetitive processes with applications. Systems and Control Letters, 2013, 62, 560-566.	1.3	24
35	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.	1.7	23
36	$\hat{a}_{\infty}^{(2)}$ output information based disturbance attenuation for differential linear repetitive processes. International Journal of Robust and Nonlinear Control, 2011, 21, 1981-1993.	2.1	22

#	ARTICLE	IF	CITATIONS
37	The Fornasini-Marchesini and the Roesser models: algebraic methods for recasting. IEEE Transactions on Automatic Control, 1996, 41, 107-112.	3.6	21
38	Control and filtering for discrete linear repetitive processes with H_{∞} and \mathcal{H}_2 performance. Multidimensional Systems and Signal Processing, 2009, 20, 235-264.	1.7	21
39	Proportional plus integral control of ladder circuits modeled in the form of two-dimensional (2D) systems. Multidimensional Systems and Signal Processing, 2015, 26, 267-290.	1.7	21
40	Finite frequency range iterative learning fault-tolerant control for discrete time-delay uncertain systems with actuator faults. ISA Transactions, 2019, 95, 152-163.	3.1	21
41	On the control of distributed parameter systems using a multidimensional systems setting. Mechanical Systems and Signal Processing, 2008, 22, 1566-1581.	4.4	20
42	Using 2D systems theory to design output signal based iterative learning control laws with experimental verification. , 2008, , .		20
43	Strong practical stability and stabilization of discrete linear repetitive processes. Multidimensional Systems and Signal Processing, 2009, 20, 311-331.	1.7	20
44	Stability of nonlinear discrete repetitive processes with Markovian switching. Systems and Control Letters, 2015, 75, 108-116.	1.3	20
45	Repetitive process based design and experimental verification of a dynamic iterative learning control law. Control Engineering Practice, 2016, 46, 157-165.	3.2	20
46	LMI-BASED ANALYSIS FOR CONTINUOUS-DISCRETE LINEAR SHIFT-INVARIANT nD SYSTEMS. Journal of Circuits, Systems and Computers, 2005, 14, 307-332.	1.0	19
47	Stabilization of a class of uncertain "wave" discrete linear repetitive processes. , 2006, , .		19
48	H_{∞} control of differential linear repetitive processes. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 39-44.	2.3	19
49	Constrained Optimal Control Theory for Differential Linear Repetitive Processes. SIAM Journal on Control and Optimization, 2008, 47, 396-420.	1.1	19
50	A 2D systems approach to iterative learning control for discrete linear processes with zero Markov parameters. International Journal of Control, 2011, 84, 1246-1262.	1.2	19
51	Higher order discretization of 2-D systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 713-722.	0.1	18
52	Control theory for a class of 2D continuous-discrete linear systems. International Journal of Control, 2004, 77, 847-860.	1.2	18
53	New results on strong practical stability and stabilization of discrete linear repetitive processes. Systems and Control Letters, 2015, 77, 22-29.	1.3	18
54	On the connection between discrete linear repetitive processes and 2-D discrete linear systems. Multidimensional Systems and Signal Processing, 2017, 28, 341-351.	1.7	18

#	ARTICLE	IF	CITATIONS
55	Modified Newton method based iterative learning control design for discrete nonlinear systems with constraints. <i>Systems and Control Letters</i> , 2018, 118, 35-43.	1.3	17
56	PI output feedback control of differential linear repetitive processes. <i>Automatica</i> , 2008, 44, 1442-1445.	3.0	16
57	\mathcal{H}_2 and Mixed $\mathcal{H}_2/\mathcal{H}_\infty$ Stabilization and Disturbance Attenuation for Differential Linear Repetitive Processes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 2813-2826.	3.5	16
58	Control law design for discrete linear repetitive processes with non-local updating structures. <i>Multidimensional Systems and Signal Processing</i> , 2013, 24, 707-726.	1.7	16
59	Stability and stabilization of systems modeled by 2D nonlinear stochastic roesser models. , 2011, , .		15
60	Stabilization of Two-Dimensional Nonlinear Systems Described by Fornasini-Marchesini and Roesser Models. <i>SIAM Journal on Control and Optimization</i> , 2018, 56, 3848-3866.	1.1	15
61	Multi-machine operations modelled and controlled as switched linear repetitive processes. <i>International Journal of Control</i> , 2008, 81, 1549-1567.	1.2	14
62	Vector Lyapunov Function based Stability of a Class of Applications Relevant 2D. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 8247-8252.	0.4	14
63	Optimization of the Directional Sensor Networks With Rotatable Sensors for Target-Barrier Coverage. <i>IEEE Sensors Journal</i> , 2021, 21, 8276-8288.	2.4	14
64	State-space realizations of MIMO 2D discrete linear systems Elementary operation and variable inversion approach. <i>International Journal of Control</i> , 2000, 73, 242-253.	1.2	13
65	Delay-dependent stability condition for uncertain linear 2-D state-delayed systems. , 2006, , .		13
66	Minimal state-space realization for a class of linear, discrete, nD, SISO systems. <i>International Journal of Control</i> , 2001, 74, 1279-1294.	1.2	12
67	Exponential stability of discrete linear repetitive processes. <i>International Journal of Control</i> , 2002, 75, 861-869.	1.2	12
68	Fractional Polynomials and nD Systems. , 0, , .		12
69	Finite frequency range robust iterative learning control of linear discrete system with multiple time-delays. <i>Journal of the Franklin Institute</i> , 2019, 356, 2690-2708.	1.9	12
70	LMI based stability analysis and controller design for a class of 2D continuous-discrete linear systems. , 0, , .		11
71	Control of discrete linear repetitive processes using strong practical stability and disturbance attenuation. <i>Systems and Control Letters</i> , 2012, 61, 1138-1144.	1.3	11
72	Linear-quadratic parametrization of stabilizing controls in discrete-time 2D systems. <i>Automation and Remote Control</i> , 2011, 72, 2364-2378.	0.4	10

#	ARTICLE	IF	CITATIONS
73	Fractional and nD systems: a continuous case. Multidimensional Systems and Signal Processing, 2012, 23, 329-347.	1.7	10
74	Iterative Learning Control of an Electrostatic Microbridge Actuator With Polytopic Uncertainty Models. IEEE Transactions on Control Systems Technology, 2015, 23, 2035-2043.	3.2	10
75	An unconditionally stable approximation of a circular flexible plate described by a fourth order partial differential equation. , 2016, , .		10
76	Vector Lyapunov functions for stability and stabilization of differential repetitive processes. Journal of Computer and Systems Sciences International, 2016, 55, 503-514.	0.2	10
77	Control systems analysis for the Fornasini-Marchesini 2D systems model " progress after four decades. International Journal of Control, 2018, 91, 2801-2822.	1.2	10
78	Two-dimensional (2D) systems approach to feedforward/feedback control of a class of spatially interconnected systems. International Journal of Control, 2018, 91, 2780-2791.	1.2	10
79	Transformation of the transfer function variables of the singular n -dimensional roesser model. International Journal of Circuit Theory and Applications, 1992, 20, 63-74.	1.3	9
80	State-space realizations of multi-input multi-output systems-elementary operations approach. International Journal of Control, 1997, 66, 119-144.	1.2	9
81	Title is missing!. Multidimensional Systems and Signal Processing, 2003, 14, 365-395.	1.7	9
82	Stabilization of Discrete Linear Repetitive Processes with Switched Dynamics. Multidimensional Systems and Signal Processing, 2006, 17, 271-295.	1.7	9
83	Modeling and control of a sorption process using 2D systems theory. , 2011, , .		9
84	Repetitive process based iterative learning control design using frequency domain analysis. , 2012, , .		9
85	Wave repetitive process approach to a class of ladder circuits. , 2012, , .		9
86	An unconditionally stable finite difference scheme systems described by second order partial differential equations. , 2015, , .		9
87	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.	2.3	9
88	Stochastic Stability of Some Classes of Nonlinear 2D Systems. Automation and Remote Control, 2018, 79, 89-102.	0.4	9
89	Passivity based stabilization of repetitive processes and iterative learning control design. Systems and Control Letters, 2018, 122, 101-108.	1.3	9
90	Linear transformation of transfer function variables of an m -D system. International Journal of Circuit Theory and Applications, 1993, 21, 351-360.	1.3	8

#	ARTICLE	IF	CITATIONS
91	H \hat{z} control of discrete linear repetitive processes. , 0, , .		8
92	Control and Disturbance Rejection for Discrete Linear Repetitive Processes. Multidimensional Systems and Signal Processing, 2005, 16, 199-216.	1.7	8
93	Discrete linear repetitive processes with smoothing. , 2007, , .		8
94	Iterative learning control method for a single-phase inverter with sinusoidal output voltage. , 2011, , .		8
95	Strong practical stability and stabilization of uncertain discrete linear repetitive processes. Numerical Linear Algebra With Applications, 2013, 20, 220-233.	0.9	8
96	Particle swarm optimization of an iterative learning controller for the single-phase inverter with sinusoidal output voltage waveform. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 649-660.	0.8	8
97	Guaranteed cost iterative learning control — An application to control of Permanent Magnet Synchronous Motors. , 2015, , .		8
98	Matrix description of multivariable polynomials. Linear Algebra and Its Applications, 1996, 234, 209-226.	0.4	7
99	Elementary operations and equivalence of two-dimensional systems. International Journal of Control, 1996, 63, 1129-1148.	1.2	7
100	Higher order discretisation methods for a class of 2-D continuous-discrete linear systems. IET Circuits, Devices and Systems, 1999, 146, 315.	0.6	7
101	LMI based stability analysis and controller design for a class of 2D discrete linear systems. , 0, , .		7
102	Optimal Control of Non-stationary Differential Linear Repetitive Processes. Integral Equations and Operator Theory, 2008, 60, 201-216.	0.4	7
103	LMI based stability and stabilization of secondâ€order linear repetitive processes. Asian Journal of Control, 2010, 12, 136-145.	1.9	7
104	Iterative Learning Control of Repetitive Transverse Loads in Elastic Materials. , 2018, , .		7
105	Derivation and reduction of the singular Fornasiniâ€Marchesini stateâ€space model for a class of multidimensional systems. IET Control Theory and Applications, 2020, 14, 634-645.	1.2	7
106	Repetitive process based stochastic iterative learning control design for linear dynamics. Systems and Control Letters, 2020, 137, 104625.	1.3	7
107	Iterative Learning Control for a Class of Multivariable Distributed Systems With Experimental Validation. IEEE Transactions on Control Systems Technology, 2021, 29, 949-960.	3.2	7
108	A Perspective on Singularity in 2D Linear Systems. Multidimensional Systems and Signal Processing, 2000, 11, 83-108.	1.7	6

#	ARTICLE	IF	CITATIONS
109	Repetitive process based iterative learning control designed by LMIs and experimentally verified on a gantry robot. , 2009, , .		6
110	Modelling and Control of Bi-Directional Discrete Linear Repetitive Processes. IEEE Transactions on Automatic Control, 2010, 55, 230-235.	3.6	6
111	Stability and Stabilization of Differential Nonlinear Repetitive Processes with Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5467-5472.	0.4	6
112	Stabilization of differential repetitive processes. Automation and Remote Control, 2015, 76, 786-800.	0.4	6
113	Stability and stabilisation of active ladder circuits modeled in the form of two-dimensional (2D) systems. , 2015, , .		6
114	Stabilization of nonlinear 2D Fornasini-Marchesini and Roesser systems. , 2015, , .		6
115	Characterization of a class of spatially interconnected systems (ladder circuits) using two-dimensional systems theory. Multidimensional Systems and Signal Processing, 2019, 30, 2185-2197.	1.7	6
116	Iterative Learning Control with Input Saturation. IFAC-PapersOnLine, 2019, 52, 338-343.	0.5	6
117	3-D modelling of rectangular circuits as the particular class of spatially interconnected systems on the plane. Multidimensional Systems and Signal Processing, 2019, 30, 1583-1608.	1.7	6
118	Strong practical stability for a class of 2D linear systems. , 0, , .		5
119	Stability and dynamic boundary condition decoupling analysis for a class of 2-D discrete linear systems. IET Circuits, Devices and Systems, 2001, 148, 126.	0.6	5
120	Control Law Design for Switched Repetitive Processes with a Metal Rolling Example. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	5
121	Application specific stability of 2-D Roesser model realizations. , 2010, , .		5
122	Design of robust iterative learning control schemes in a finite frequency range. , 2011, , .		5
123	Iterative learning control under parameter uncertainty and failures. , 2012, , .		5
124	Robust fault-tolerant iterative learning control for discrete systems via linear repetitive processes theory. International Journal of Automation and Computing, 2015, 12, 254-265.	4.5	5
125	Design of iterative learning control schemes for a class of spatially interconnected systems. , 2017, , .		5
126	Relaxed pass profile controllability of discrete linear repetitive processes. International Journal of Control, 2006, 79, 938-958.	1.2	4

#	ARTICLE	IF	CITATIONS
127	Delay-dependent stability of 2D state-delayed linear systems. , 0, , .		4
128	Strong practical stability and control of discrete linear repetitive processes. , 2007, , .		4
129	Optimal control of wave linear repetitive processes. Systems and Control Letters, 2008, 57, 940-945.	1.3	4
130	On the usability of practical stable n-D systems for signal processing applications. , 2009, , .		4
131	Robust control of distributed parameter mechanical systems using a multidimensional systems approach. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2010, 58, 67-75.	0.8	4
132	Experimentally verified Iterative Learning Control based on repetitive process stability theory. , 2012, , .		4
133	A sensitivity-based approach for the control of repetitive processes. , 2013, , .		4
134	Robust stability of ladder circuits from the 2D systems point of view. , 2013, , .		4
135	Design of iterative learning control schemes for systems with zero Markov parameters. , 2015, , .		4
136	Dissipativity of Nonlinear 2D Systems—This work was performed by agreement No 2.1748.2014/K with Ministry of Education and Science of Russia and also supported in part by RFBR (grant No) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td Foundation (grant14-29-00142).. IFAC-PapersOnLine, 2015, 48, 784-789.	0.5	4
137	Iterative learning control design based on feedback linearization and nonlinear repetitive process stability theory. , 2016, , .		4
138	Further results on dynamic iterative learning control law design using repetitive process stability theory. , 2017, , .		4
139	Equivalent 2-D nonsingular Roesser models for discrete linear repetitive processes. International Journal of Control, 2018, 91, 2673-2681.	1.2	4
140	Equivalence of wave linear repetitive processes and the singular 2-D Roesser state-space model. Multidimensional Systems and Signal Processing, 2020, 31, 103-116.	1.7	4
141	Output feedback based robust iterative learning control via a heuristic approach for batch processes with time-varying state delays and uncertainties. Journal of Process Control, 2022, 116, 159-171.	1.7	4
142	Spectral transformations of an $n \in \mathbb{D}$ roesser model. International Journal of Circuit Theory and Applications, 1993, 21, 481-485.	1.3	3
143	Delay differential control theory applied to differential linear repetitive processes. , 2002, , .		3
144	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.	1.2	3

#	ARTICLE	IF	CITATIONS
145	H2 CONTROL OF DIFFERENTIAL LINEAR REPETITIVE PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 55-60.	0.4	3
146	Fractional Polynomials and nD Systems: A Continuous Case. , 2006, , .		3
147	Multidimensional filtering for movement analysis in image sequences. , 2007, , .		3
148	Stability of a class of 2D linear systems with smoothing. , 2009, , .		3
149	Strong practical stability and stabilization of differential linear repetitive processes. Systems and Control Letters, 2010, 59, 639-644.	1.3	3
150	On the design of ILC schemes for finite frequency range tracking specifications. , 2010, , .		3
151	Absolute stability and stabilization of 2D Roesser systems with nonlinear output feedback. , 2011, , .		3
152	Control of differential linear repetitive processes using strong practical stability and $\hat{\sigma}$ -disturbance attenuation. International Journal of Control, 2013, 86, 636-649.	1.2	3
153	New KYP lemma based stability tests and control law design algorithms for differential linear repetitive processes. , 2013, , .		3
154	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.	0.4	3
155	Insufficiencies of practical BIBO stable n-D systems. Multidimensional Systems and Signal Processing, 2014, 25, 3-15.	1.7	3
156	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, .	0.7	3
157	Robust finite frequency design of iterative learning control schemes**This work is partially supported by National Science Centre in Poland, grant No. 2014/15/B/ST7/03208. IFAC-PapersOnLine, 2016, 49, 169-174.	0.5	3
158	Robust static output feedback based iterative learning control design with a finite frequency range two-dimensional specification for batch processes subject to nonrepetitive disturbances. International Journal of Robust and Nonlinear Control, 2021, 31, 5745-5761.	2.1	3
159	Minimal State-space Realization for a Class of nD Systems. , 2005, , 179-194.		3
160	Iterative Learning Control for a discretized sub-class of spatially interconnected systems. Advances in Intelligent Systems and Computing, 2017, , 744-753.	0.5	3
161	Iterative Learning Control of the electrostatic microbridge actuator. , 2013, , .		3
162	Iterative Learning Control for Switched Systems in the Presence of Input Saturation. IFAC-PapersOnLine, 2020, 53, 1444-1449.	0.5	3

#	ARTICLE	IF	CITATIONS
163	Iterative Learning Control of Stochastic Linear Systems with Reference Trajectory Switching. , 2021, , .		3
164	An a priori nonminimal state-space realization of n-D systems. Linear Algebra and Its Applications, 1991, 151, 185-198.	0.4	2
165	Proportional plus integral control and disturbance rejection for differential linear repetitive processes. , 2005, , .		2
166	Optimal control and optimization for a class of repetitive processes. , 2007, , .		2
167	Stability of two-step repetitive processes based on a matrix formulation. , 2007, , .		2
168	Iterative Learning Control for wave linear repetitive processes. , 2009, , .		2
169	A Simplified approach to Iterative Learning Control based on strong practical stability of repetitive processes. , 2009, , .		2
170	Parametrization based synthesis of static feedback stabilizing controllers for uncertain discrete linear repetitive processes. , 2009, , .		2
171	Special issue on "Recent Developments in Multidimensional Systems, Control and Signals-Theory and Applications" Asian Journal of Control, 2010, 12, 117-118.	1.9	2
172	2D systems theory applied to iterative learning control of spatio-temporal dynamics. , 2010, , .		2
173	New frequency domain based stability tests for 2D linear systems. , 2012, , .		2
174	Special issue on: advances in multidimensional systems and signal processing. Multidimensional Systems and Signal Processing, 2012, 23, 1-3.	1.7	2
175	Stability and robustness of discrete linear repetitive processes in the finite frequency domain using the KYP lemma. , 2013, , .		2
176	H _∞ based stabilization and disturbance attenuation for nonlinear differential repetitive processes with an iterative learning control application. , 2014, , .		2
177	2D systems based iterative learning control design for multiple-input multiple-output systems. , 2014, , .		2
178	Passivity based stabilization of nonlinear 2D systems with application to iterative learning control. , 2014, , .		2
179	Exponential stability and stabilization of nD systems. , 2015, , .		2
180	Control of discretised sub-class of 2D systems. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
181	Addenda to the papers "stability of nonlinear 2D systems described by the continuous-time Roesser model" and "stabilization of differential repetitive processes" Automation and Remote Control, 2016, 77, 130-132.	0.4	2
182	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.	0.5	2
183	Modeling and Iterative Learning Control of a Circular Deformable Mirror * *This work is partially supported by National Science Centre in Poland, grant No.2015/17/B/ST7/03703.. IFAC-PapersOnLine, 2017, 50, 3117-3122.	0.5	2
184	Reduction of wave linear repetitive processes to singular Roesser model form. , 2017, , .		2
185	Iterative Learning Control Design for Discrete Stochastic Linear Systems. , 2019, , .		2
186	Frequency Domain Design of a Robust Iterative Learning Control via Convex Optimization Techniques. , 2019, , .		2
187	2D Systems based Dynamic Iterative Learning Control Design with Experimental Validation on a 3D Crane Model. IFAC-PapersOnLine, 2019, 52, 332-337.	0.5	2
188	LMI based output feedback control of discrete linear repetitive processes. , 2004, , .		2
189	Control for performance of ladder circuits with nonlinear elements. , 2019, , .		2
190	New 2D Systems Models for Repetitive Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 435-440.	0.4	1
191	Multitime Scale Systems - The ND Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 519-524.	0.4	1
192	Lyapunov stability theory for linear repetitive processes " The 1D equation approach. , 1999, , .		1
193	Analysis of properties of multitime-scale systems in 2D approach. , 1999, , 75-86.		1
194	Stability and control of a physical class of 2D continuous-discrete linear systems using an LMI setting. , 0, , .		1
195	Proportional plus integral output control and disturbance rejection for discrete linear repetitive processes. , 2005, , .		1
196	Infinite-dimensional systems described by first order PDEs. , 2005, , .		1
197	2-D control theory in gas transport network modeling. , 2005, , .		1
198	Output feedback/feedforward control of discrete linear repetitive processes for performance and disturbance rejection. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
199	SCILAB compatible software for analysis and control of repetitive processes. , 2006, , .		1
200	On control laws for discrete linear repetitive processes with dynamic boundary conditions. Multidimensional Systems and Signal Processing, 2008, 19, 477-488.	1.7	1
201	Strong practical stability and stabilization of 2D differential-discrete linear systems. , 2008, , .		1
202	Iterative Learning Control based on strong practical stability of repetitive processes. , 2009, , .		1
203	Stability and robustness of systems with synchronization errors. , 2009, , .		1
204	On controllability and control laws for discrete linear repetitive processes. International Journal of Control, 2010, 83, 66-73.	1.2	1
205	Iterative learning control for discrete linear systems with Zero Markov parameters using repetitive process stability theory. , 2011, , .		1
206	On the stability and control of discrete linear systems with clock synchronisation errors. International Journal of Control, 2011, 84, 1491-1499.	1.2	1
207	Robust Stabilization of Repetitive Processes with Possible Failures. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2344-2349.	0.4	1
208	Finite frequency range control law synthesis for differential linear repetitive processes. , 2011, , .		1
209	Repetitive process based iterative learning control for a two motors system. , 2012, , .		1
210	Finite frequency domain design of dynamic controllers for differential linear repetitive processes. , 2013, , .		1
211	An algorithm for design of deadbeat controllers of spatially invariant systems. , 2014, , .		1
212	Design of iterative learning control algorithms by generalized KYP synthesis. , 2014, , .		1
213	Application specific stability of 3-D Roesser-like model realizations. , 2015, , .		1
214	Reducing conservativeness in robust iterative learning control (ILC) design using parameter-dependent Lyapunov functions. , 2015, , .		1
215	LMI-based gain scheduled ILC design for linear parameter-varying systems. , 2016, , .		1
216	Weak stability of nonlinear repetitive processes. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
217	Robust iterative learning control laws with full dynamics. , 2016, , .		1
218	Stability and stabilization of the subclass of 2D systems modeled as descriptor systems. , 2016, , .		1
219	Robustness of uncertain discrete linear repetitive processes with disturbance attenuation. , 2016, , .		1
220	Iterative learning control laws with full dynamics. , 2016, , .		1
221	A practically tractable iterative learning control scheme for a circular deformable mirror. , 2017, , .		1
222	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.	0.5	1
223	Iterative learning control of a distributed heating system described by a non-minimum phase model. , 2018, , .		1
224	Improved PI Based Indirect-Type ILC for Batch Processes with Time-Varying Uncertainties: A New Perspective. , 2018, , .		1
225	Dissipative Stabilization of Nonlinear Repetitive Processes with an Iterative Learning Control Application. , 2019, , .		1
226	Constructing the Singular Roesser State-Space Model Description of 3D Spatio-Temporal Dynamics From the Polynomial System Matrix. IEEE Access, 2021, 9, 45632-45641.	2.6	1
227	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.	1.7	1
228	Computation of the Trajectories Generated by 2D Discrete Model Approximations of the Dynamics of Differential Linear Repetitive Processes. , 1997, , 158-165.		1
229	Application of the Dynamic Iterative Learning Control to the Heteroplanar Active Magnetic Bearing. IFAC-PapersOnLine, 2020, 53, 1511-1516.	0.5	1
230	Dynamic Output-Only Iterative Learning Control Design. IEEE Access, 2021, , 1-1.	2.6	1
231	Further results on 1D state space models for discrete linear repetitive processes. , 0, , .		0
232	Stability theory for a class of 2D linear systems with dynamic boundary conditions. , 0, , .		0
233	Equivalence of state space models for 2-D MIMO systems - elementary operations approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 1897-1902.	0.4	0
234	On the observability properties of a class of 2D discrete linear systems. , 0, , .		0

#	ARTICLE	IF	CITATIONS
235	On the Structure of Singular Discrete Linear Repetitive Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 555-559.	0.4	0
236	Feedforward/feedback control of discrete linear repetitive processes with disturbances applied to a material rolling process. , 0, , .		0
237	Controllability and optimization for differential linear repetitive processes. , 0, , .		0
238	H/sub /spl infin// control of differential linear repetitive processes. , 2004, , .		0
239	Corrections to "Guaranteed Cost Control of Uncertain Differential Linear Repetitive Processes" IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 690-690.	2.3	0
240	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.	0.4	0
241	Multidimensional Systems, Signals, Circuits, and Repetitive Processes: Theory, Applications, and Future Trends. , 2005, , 283-302.		0
242	Control of a Class of. , 0, , .		0
243	The influence of feedback/feedforward control on relaxed pass profile controllability of discrete linear repetitive processes. , 2005, , .		0
244	A MIMO-system for a 2-dimensional active noise control application. , 2005, , .		0
245	Control of discrete linear repetitive processes with uncertain sampling period and application to a physical example. , 2005, , .		0
246	Noncommutative linear system theory, formal power series in noncommuting indeterminants and applications. , 2005, , .		0
247	New A'causal Output Control for Discrete Linear Repetitive Processes. , 2007, , .		0
248	Control of Discrete Linear Repetitive Processes with H and l2 - l Performance. Proceedings of the American Control Conference, 2007, , .	0.0	0
249	Filtering of Discrete Linear Repetitive Processes with H and l2-l Performance. , 2007, , .		0
250	Decoupling and iterative approaches to the control of discrete linear repetitive processes. Multidimensional Systems and Signal Processing, 2007, 18, 249-272.	1.7	0
251	Preface for the Special Issue of MSSP "Recent advances in multidimensional systems and signals" Multidimensional Systems and Signal Processing, 2008, 19, 269-271.	1.7	0
252	Control of discrete linear repetitive processes with non-causal dynamics. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
253	Constrained optimal control theory for differential linear repetitive processes. , 2008, , .		0
254	A repetitive process approach to the control of self-servowriting in disk drives. , 2008, , .		0
255	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.	1.5	0
256	Dynamic programming for 2D discrete nonlinear systems. , 2009, , .		0
257	Using 2D systems theory to design iterative learning control laws with multiple reference signals. , 2009, , .		0
258	Stability and stabilization of a class of ill-conditioned second order differential linear repetitive processes. , 2009, , .		0
259	Iterative learning control for spatio-temporal dynamics in an nD systems setting. , 2009, , .		0
260	Insufficiencies of the practical BIBO stability concept with regard to signal processing systems. , 2009, , .		0
261	On the control discrete linear repetitive processes with smoothing effects * *This work has been partially supported by the Ministry of Science and Higher Education in Poland under the project N N514 293235.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 342-347.	0.4	0
262	Experimentally verified 2D systems theory based robust iterative learning control. , 2010, , .		0
263	Switched differential linear repetitive processes. , 2010, , .		0
264	Strong practical stability and H_{∞} disturbance attenuation for discrete linear repetitive processes. , 2010, , .		0
265	A new 2D systems approach applied to Tterative Learning Control of spatio-temporal dynamics. , 2010, , .		0
266	Smoothing control of discrete linear repetitive processes. , 2011, , .		0
267	Control of discrete linear repetitive processes using non-local previous pass information. , 2011, , .		0
268	On the control of discrete linear repetitive processes using previous pass windowed information. , 2012, , .		0
269	Special issue on Multidimensional systems theory and control. Multidimensional Systems and Signal Processing, 2013, 24, 599-600.	1.7	0
270	The role of 2D linear systems theory in the design and experimental verification of iterative learning control algorithms. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
271	LMI-based design of robust iterative learning control schemes with finite frequency range tracking specifications. , 2013, , .		0
272	Stability and Stabilization of Nonlinear 2D Markovian Jump Systems with Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 695-700.	0.4	0
273	∞ based disturbance attenuation for iterative learning control. , 2014, , .		0
274	Output feedback control of discrete linear repetitive processes over finite frequency ranges. , 2015, , .		0
275	Stability of stochastic repetitive processes. , 2015, , .		0
276	Stabilization of stochastic 2D Fornasini-Marchesini systems. , 2015, , .		0
277	A passivity based stability measure for discrete 3-D IIR system realizations. , 2016, , .		0
278	Generalized Kalman-Yakubovich-Popov lemma based stability conditions for 2D linear systems. , 2016, , .		0
279	Design of iterative learning control schemes for systems with sector-bounded nonlinearities. , 2016, , .		0
280	Stability analysis of 2D Roesser systems via vector Lyapunov functions * *This work is supported in part by Russian Foundation for Basic Research under grants 16-08-00916_a, 16-38-00192_mol_a and in part by National Science Centre in Poland under grant 2015/17/B/ST7/03703.. IFAC-PapersOnLine, 2017, 50, 4126-4131.	0.5	0
281	Iterative learning control of a class of ladder circuits represented by descriptor systems. , 2017, , .		0
282	Passivity based iterative learning control of differential systems. , 2017, , .		0
283	Stability theory for a class of linear nonnegative multidimensional discrete systems. , 2017, , .		0
284	Iterative learning control applied to a deformable mirror. , 2017, , .		0
285	Stability and stabilization of differential repetitive processes with time-delays over finite frequency ranges. , 2018, , .		0
286	Passivity Based Iterative Learning Control Design in the Discrete Repetitive Process Setting. , 2018, , .		0
287	Constrained Observer Based Iterative Learning Control Design in the Repetitive Process Setting. , 2019, , .		0
288	Control of discrete linear repetitive processes with application to a material rolling process. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
289	Control Laws for Discrete Linear Repetitive Processes with Smoothed Previous Pass Dynamics. , 2010, , 175-193.		0
290	Iterative Learning Control for a class of spatially interconnected systems. Advances in Intelligent Systems and Computing, 2017, , 734-743.	0.5	0
291	Robust Iterative Learning Control for Spatially Interconnected Systems using 2D Control Theory [*] . , 2021, , .		0