Krzysztof Galkowski

List of Publications by Citations

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

215 papers	2,139 citations	22 h-index	36 g-index
298 ext. papers	2,726 ext. citations	2.1 avg, IF	5.01 L-index

#	Paper	IF	Citations
215	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
214	Robust stability and stabilisation of 2D discrete state-delayed systems. *Systems and Control Letters*, **2004**, 51, 277-291	2.4	130
213	LMIs - a fundamental tool in analysis and controller design for discrete linear repetitive processes. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2002**, 49, 768-778		66
212	Positive real control for uncertain two-dimensional systems. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2002**, 49, 1659-1666		59
211	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
210	Robust finite frequency range iterative learning control design and experimental verification. *Control Engineering Practice*, **2013**, 21, 1310-1320	3.9	56
209	Multidimensional control systems: case studies in design and evaluation. *Multidimensional Systems and Signal Processing*, **2015**, 26, 895-939	1.8	53
208	Experimentally verified generalized KYP Lemma based iterative learning control design. *Control Engineering Practice*, **2016**, 53, 57-67	3.9	53
207	Stability and control of differential linear repetitive processes using an LMI setting. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2003**, 50, 662-666		53
206	Robust output feedback stabilization for two-dimensional continuous systems in roesser form. *Applied Mathematics Letters*, **2004**, 17, 1331-1341	3.5	51
205	LMI approach to state-feedback stabilization of multidimensional systems. *International Journal of Control*, **2003**, 76, 1428-1436	1.5	37
204	Positive real control of two-dimensional systems: Roesser models and linear repetitive processes. *International Journal of Control*, **2003**, 76, 1047-1058	1.5	35
203	Robust iterative learning control for batch processes with input delay subject to time-varying uncertainties. *IET Control Theory and Applications*, **2016**, 10, 1904-1915	2.5	35
202	2D systems based robust iterative learning control using noncausal finite-time interval data. *Systems and Control Letters*, **2014**, 64, 36-42	2.4	31
201	Iterative learning control for spatio-temporal dynamics using Crank-Nicholson discretization. *Multidimensional Systems and Signal Processing*, **2012**, 23, 185-208	1.8	29
200	LMI based stability analysis and robust controller design for discrete linear repetitive processes. *International Journal of Robust and Nonlinear Control*, **2003**, 13, 1195-1211	3.6	29
199	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

198	Output feedback control of discrete linear repetitive processes?. *Automatica*, **2004**, 40, 2167-2173	5.7	25
197	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		25
196	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		24
195	New 2D models and a transition matrix for discrete linear repetitive processes. *International Journal of Control*, **1999**, 72, 1365-1380	1.5	24
194	Dissipativity and stabilization of nonlinear repetitive processes. *Systems and Control Letters*, **2016**, 91, 14-20	2.4	24
193	Stability of nonlinear 2D systems described by the continuous-time Roesser model. *Automation and Remote Control*, **2014**, 75, 845-858	0.6	22
192	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
191	Robust H ∞ filtering for uncertain differential linear repetitive processes. *International Journal of Adaptive Control and Signal Processing*, **2008**, 22, 243-265	2.8	22
190	Guaranteed cost control of uncertain differential linear repetitive processes. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2004**, 51, 629-634		22
189	A Constructive Approach to Stabilizability and Stabilization of a Class of nD Systems. *Multidimensional Systems and Signal Processing*, **2001**, 12, 329-343	1.8	21
188	LMI based stability analysis for 2D continuous systems		21
187	Matrix rank based conditions for reachability/controllability of discrete linear repetitive processes. *Linear Algebra and Its Applications*, **1998**, 275-276, 201-224	0.9	20
186	PI control of discrete linear repetitive processes. *Automatica*, **2006**, 42, 877-880	5.7	20
185	The Fornasini-Marchesini and the Roesser models: algebraic methods for recasting. *IEEE Transactions on Automatic Control*, **1996**, 41, 107-112	5.9	19
184	Robust guaranteed cost ILC with dynamic feedforward and disturbance compensation for accurate PMSM position control. *Control Engineering Practice*, **2017**, 65, 36-47	3.9	18
183	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
182	On the control of distributed parameter systems using a multidimensional systems setting. *Mechanical Systems and Signal Processing*, **2008**, 22, 1566-1581	7.8	18
181	Higher order discretization of 2-D systems. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2000**, 47, 713-722		18

180	The state-space realization of an n-dimensional transfer function. *International Journal of Circuit Theory and Applications*, **1981**, 9, 189-197	2	18
179	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
178	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
177	On the connection between discrete linear repetitive processes and 2-D discrete linear systems. *Multidimensional Systems and Signal Processing*, **2017**, 28, 341-351	1.8	16
176	Stability of nonlinear discrete repetitive processes with Markovian switching. *Systems and Control Letters*, **2015**, 75, 108-116	2.4	16
175	New results on strong practical stability and stabilization of discrete linear repetitive processes. *Systems and Control Letters*, **2015**, 77, 22-29	2.4	16
174	Stabilization of a class of uncertain "wave" discrete linear repetitive processes **2006**,		16
173	Repetitive process based design and experimental verification of a dynamic iterative learning control law. *Control Engineering Practice*, **2016**, 46, 157-165	3.9	15
172	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
171	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
170	Constrained Optimal Control Theory for Differential Linear Repetitive Processes. *SIAM Journal on Control and Optimization*, **2008**, 47, 396-420	1.9	14
169	Control theory for a class of 2D continuous-discrete linear systems. *International Journal of Control*, **2004**, 77, 847-860	1.5	14
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166	LMI-BASED ANALYSIS FOR CONTINUOUS-DISCRETE LINEAR SHIFT-INVARIANT nD SYSTEMS. *Journal of Circuits, Systems and Computers*, **2005**, 14, 307-332	0.9	13
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164	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 2813-2826	3.9	12
163	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	1.8	11

162	**2011**,		11
161	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
160	Vector Lyapunov functions for stability and stabilization of differential repetitive processes. *Journal of Computer and Systems Sciences International*, **2016**, 55, 503-514	1	10
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153	Exponential stability of discrete linear repetitive processes. *International Journal of Control*, **2002**, 75, 861-869	1.5	9
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141	Discrete linear repetitive processes with smoothing **2007**,		7
140	Fractional polynomials and nD systems		7
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137	LMI based stability analysis and controller design for a class of 2D continuous-discrete linear systems		7
136	Optimization of the Directional Sensor Networks With Rotatable Sensors for Target-Barrier Coverage. *IEEE Sensors Journal*, **2021**, 21, 8276-8288	4	7
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131	Guaranteed cost iterative learning control An application to control of Permanent Magnet Synchronous Motors **2015**,		6
130	Fractional and nD systems: a continuous case. *Multidimensional Systems and Signal Processing*, **2012**, 23, 329-347	1.8	6
129	Iterative learning control method for a single-phase inverter with sinusoidal output voltage **2011**,		6
128	Control and Disturbance Rejection for Discrete Linear Repetitive Processes. *Multidimensional Systems and Signal Processing*, **2005**, 16, 199-216	1.8	6
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121	Modeling and control of a sorption process using 2D systems theory **2011**,		5
120	Repetitive process based iterative learning control design using frequency domain analysis **2012**,		5
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110	Stabilization of differential repetitive processes. *Automation and Remote Control*, **2015**, 76, 786-800	0.6	4
109	Modelling and Control of Bi-Directional Discrete Linear Repetitive Processes. *IEEE Transactions on Automatic Control*, **2010**, 55, 230-235	5.9	4

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107	Delay-dependent stability of 2D state-delayed linear systems		4
106	Matrix description of multivariable polynomials. *Linear Algebra and Its Applications*, **1996**, 234, 209-226	0.9	4
105	Iterative learning control design based on feedback linearization and nonlinear repetitive process stability theory **2016**,		4
104	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	1.8	4
103	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
102	Equivalent 2-D nonsingular Roesser models for discrete linear repetitive processes. *International Journal of Control*, **2018**, 91, 2673-2681	1.5	3
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99	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
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96	Relaxed pass profile controllability of discrete linear repetitive processes. *International Journal of Control*, **2006**, 79, 938-958	1.5	3
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92	Iterative Learning Control of the electrostatic microbridge actuator **2013**,		3
91	Derivation and reduction of the singular Fornasini–Marchesini state-space model for a class of multidimensional systems. *IET Control Theory and Applications*, **2020**, 14, 634-645	2.5	3

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88	Repetitive process based stochastic iterative learning control design for linear dynamics. *Systems and Control Letters*, **2020**, 137, 104625	2.4	2
87	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	0.6	2
86	Passivity based stabilization of nonlinear 2D systems with application to iterative learning control **2014**,		2
85	Special issue on: advances in multidimensional systems and signal processing. *Multidimensional Systems and Signal Processing*, **2012**, 23, 1-3	1.8	2
84	Robust stability of ladder circuits from the 2D systems point of view **2013**,		2
83	**2017**,		2
82	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
81	Reduction of wave linear repetitive processes to singular Roesser model form **2017**,		2
80	Design of iterative learning control schemes for a class of spatially interconnected systems **2017**,		2
79	Stability and stabilisation of active ladder circuits modeled in the form of two-dimensional (2D) systems **2015**,		2
78	Exponential stability and stabilization of nD systems **2015**,		2
77	H based stabilization and disturbance attenuation for nonlinear differential repetitive processes with an iterative learning control application **2014**,		2
76	2D systems based iterative learning control design for multiple-input multiple-output systems **2014** ,		2
75	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
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72	Design of robust iterative learning control schemes in a finite frequency range **2011**,		2
71	Iterative Learning Control for wave linear repetitive processes **2009**,		2
70	Absolute stability and stabilization of 2D Roesser systems with nonlinear output feedback **2011**,		2
69	On the usability of practical stable n-D systems for signal processing applications **2009**,		2
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67	Strong practical stability and stabilization of differential linear repetitive processes. *Systems and Control Letters*, **2010**, 59, 639-644	2.4	2
66	Optimal control and optimization for a class of repetitive processes **2007**,		2
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64	Fractional Polynomials and nD Systems: A Continuous Case **2006**,		2
63	Delay differential control theory applied to differential linear repetitive processes **2002**,		2
62	An a priori nonminimal state-space realization of n-D systems. *Linear Algebra and Its Applications*, **1991**, 151, 185-198	0.9	2
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54	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
53	Reducing conservativeness in robust iterative learning control (ILC) design using parameter-dependent Lyapunov functions **2015**,		1
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48	New KYP lemma based stability tests and control law design algorithms for differential linear repetitive processes **2013**,		1
47	Stability and robustness of discrete linear repetitive processes in the finite frequency domain using the KYP lemma **2013**,		1
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40	Experimentally verified Iterative Learning Control based on repetitive process stability theory **2012** ,		1
39	Parametrization based synthesis of static feedback stabilizing controllers for uncertain discrete linear repetitive processes **2009**,		1
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37	Stability of two-step repetitive processes based on a matrix formulation **2007**,		1

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31	Analysis of properties of multitime-scale systems in 2D approach **1999**, 75-86		1
30	Application of the Dynamic Iterative Learning Control to the Heteroplanar Active Magnetic Bearing. *IFAC-PapersOnLine*, **2020**, 53, 1511-1516	0.7	1
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