

Vakhtang Lomadze

List of Publications by Year in descending order

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51
papers

161
citations

1478280

6
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1474057

9
g-index

51
all docs

51
docs citations

51
times ranked

44
citing authors

#	ARTICLE	IF	CITATIONS
1	When are linear differentiation-invariant spaces differential?. Linear Algebra and Its Applications, 2007, 424, 540-554.	0.4	19
2	Applications of vector bundles to factorization of rational matrices. Linear Algebra and Its Applications, 1999, 288, 249-258.	0.4	12
3	State and internal variables for linear systems. Linear Algebra and Its Applications, 2007, 425, 534-547.	0.4	9
4	On some basics of linear systems theory. Systems and Control Letters, 2009, 58, 83-90.	1.3	8
5	On duality for partial differential (and difference) equations. Journal of Algebra, 2004, 275, 791-800.	0.4	7
6	On the regular feedback interconnection problem. International Journal of Control, 2006, 79, 858-865.	1.2	6
7	Smooth/impulsive linear systems: Axiomatic description. Linear Algebra and Its Applications, 2010, 433, 1997-2009.	0.4	6
8	A Behavioral Approach to Singular Systems. Acta Applicandae Mathematicae, 1998, 54, 331-344.	0.5	5
9	Singular Linear Behaviors and Their AR-Representations. Mathematics of Control, Signals, and Systems, 2001, 14, 194-211.	1.4	5
10	Convolutional Codes and Coherent Sheaves. Applicable Algebra in Engineering, Communications and Computing, 2001, 12, 273-326.	0.3	5
11	Axiomatic characterization of linear differential systems (and operators). Automatica, 2012, 48, 815-819.	3.0	5
12	Duality in the behavioral systems theory. Automatica, 2013, 49, 1510-1514.	3.0	5
13	ARMA-models and their equivalences. International Journal of Control, 2009, 82, 2034-2039.	1.2	4
14	(Generalised) autoregressive models and their trajectories. International Journal of Control, 2009, 82, 1929-1936.	1.2	4
15	Singular 2D Behaviors: Fornasini's Marchesini and Givone's Roesser Models. Georgian Mathematical Journal, 2009, 16, 105-130.	0.2	4
16	Relative completeness and specifiedness properties of continuous linear dynamical systems. Systems and Control Letters, 2010, 59, 695-703.	1.3	4
17	Controllability as Minimality. SIAM Journal on Control and Optimization, 2012, 50, 357-367.	1.1	4
18	Reduced Polynomial Matrices in Several Variables. SIAM Journal on Control and Optimization, 2013, 51, 3258-3273.	1.1	4

#	ARTICLE	IF	CITATIONS
19	The PBH test for multidimensional LTID systems. <i>Automatica</i> , 2013, 49, 2933-2937.	3.0	4
20	Linear system theory: An algebraist's point of view. <i>Systems and Control Letters</i> , 1996, 29, 73-79.	1.3	3
21	Linear constant coefficient differential (or difference) equations. <i>Journal of Pure and Applied Algebra</i> , 2000, 147, 143-157.	0.3	3
22	Fractional representations of linear systems. <i>Systems and Control Letters</i> , 2000, 39, 275-281.	1.3	3
23	Linear systems with locally integrable trajectories. <i>Linear Algebra and Its Applications</i> , 2009, 430, 2277-2289.	0.4	3
24	Linear systems, and ARMA- and Fliess models. <i>International Journal of Control</i> , 2010, 83, 2165-2180.	1.2	3
25	Proper representations of (multivariate) linear differential systems. <i>Systems and Control Letters</i> , 2016, 94, 25-30.	1.3	3
26	Converting high order linear PDEs to first order. <i>Systems and Control Letters</i> , 2016, 94, 107-110.	1.3	3
27	How to define the dual of a higher-dimensional linear system. <i>Linear Algebra and Its Applications</i> , 2009, 431, 2084-2101.	0.4	2
28	Rational differential operators and their kernels. <i>Linear Algebra and Its Applications</i> , 2011, 435, 2870-2888.	0.4	2
29	On Homotopy and Similarity in Linear Systems Theory. <i>Acta Applicandae Mathematicae</i> , 2011, 116, 87-105.	0.5	2
30	Lifting discrete trajectories. <i>Applied Mathematics Letters</i> , 2012, 25, 1716-1720.	1.5	2
31	A note on Ehrenpreis's fundamental principle. <i>Linear Algebra and Its Applications</i> , 2013, 438, 2083-2089.	0.4	2
32	Characterization of linear differential systems (in several variables). <i>Systems and Control Letters</i> , 2014, 68, 20-24.	1.3	2
33	Polynomial solutions to linear PDEs with constant coefficients. <i>Georgian Mathematical Journal</i> , 2019, 26, 287-293.	0.2	2
34	State representations of ARMA-models. <i>International Journal of Control</i> , 2010, 83, 2091-2097.	1.2	1
35	Smooth/impulsive linear systems: controllability. <i>International Journal of Control</i> , 2011, 84, 679-692.	1.2	1
36	A note on interconnections. <i>Applied Mathematics Letters</i> , 2011, 24, 1835-1839.	1.5	1

#	ARTICLE	IF	CITATIONS
37	Behaviors and symbols of rational matrices. <i>Systems and Control Letters</i> , 2012, 61, 98-106.	1.3	1
38	The predictable degree property and minimality in multidimensional convolutional coding. <i>Discrete Mathematics</i> , 2019, 342, 784-792.	0.4	1
39	Continuous dependence of linear differential systems on polynomial modules. <i>Mathematics of Control, Signals, and Systems</i> , 2020, 32, 385-409.	1.4	1
40	First order representations of Fliess models. <i>Linear Algebra and Its Applications</i> , 2011, 434, 1027-1057.	0.4	0
41	(Singular) state models and (singular) LTID systems. <i>International Journal of Control</i> , 2014, 87, 567-580.	1.2	0
42	Addendum to "(Singular) state models and (singular) LTID systems". <i>International Journal of Control</i> , 2014, 87, 1312-1315.	1.2	0
43	Taylor approximations of multidimensional linear differential systems. <i>International Journal of Control</i> , 2016, 89, 1091-1095.	1.2	0
44	On the reduction of high order linear PDEs to first order. <i>Linear Algebra and Its Applications</i> , 2017, 530, 1-14.	0.4	0
45	Converting high order linear PDEs to first order: Noncommutative case. <i>Systems and Control Letters</i> , 2017, 109, 49-52.	1.3	0
46	KW Models for (Multivariate) Linear Differential Systems. <i>SIAM Journal on Control and Optimization</i> , 2018, 56, 456-472.	1.1	0
47	On the Wiener-Hopf factorization of rational matrices. <i>Transactions of A Razmadze Mathematical Institute</i> , 2018, 172, 73-81.	0.7	0
48	Non-catastrophicity in multidimensional convolutional coding. <i>Discrete Mathematics</i> , 2020, 343, 111789.	0.4	0
49	Duality for Multidimensional Linear Systems with Homological Dimension ≤ 1 . <i>SIAM Journal on Control and Optimization</i> , 2021, 59, 417-433.	1.1	0
50	Continuity of the solution set to a linear PDE with constant coefficients. <i>International Journal of Control</i> , 0, , 1-5.	1.2	0
51	Differential equations defined by (convergent) Laurent series. <i>Journal of Algebra and Its Applications</i> , 0, , .	0.3	0