

Athanasios C Antoulas

List of Publications by Year in descending order

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31
papers

2,919
citations

1040056

9
h-index

752698

20
g-index

33
all docs

33
docs citations

33
times ranked

1649
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Model Reduction by Balanced Truncation and Some New Results. International Journal of Control, 2004, 77, 748-766.	1.9	624
2	A Cell-Autonomous Mammalian 12Âhr Clock Coordinates Metabolic and Stress Rhythms. Cell Metabolism, 2017, 25, 1305-1319.e9.	16.2	119
3	Interpolatory Model Reduction of Large-Scale Dynamical Systems. , 2010, , 3-58.		98
4	Data-driven model order reduction of quadratic-bilinear systems. Numerical Linear Algebra With Applications, 2018, 25, e2200.	1.6	55
5	Chapter 8: A Tutorial Introduction to the Loewner Framework for Model Reduction. , 2017, , 335-376.		54
6	Model reduction of large-scale systems by least squares. Linear Algebra and Its Applications, 2006, 415, 290-321.	0.9	46
7	Passivity-Preserving Model Reduction Using Dominant Spectral-Zero Interpolation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 2250-2263.	2.7	38
8	On the Convergence of the Vector-Fitting Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1435-1443.	4.6	30
9	Interpolatory weighted- model reduction. Automatica, 2013, 49, 1275-1280.	5.0	29
10	A novel mathematical method for disclosing oscillations in gene transcription: A comparative study. PLoS ONE, 2018, 13, e0198503.	2.5	23
11	Balanced truncation for linear switched systems. Advances in Computational Mathematics, 2018, 44, 1845-1886.	1.6	16
12	Stability preserving post-processing methods applied in the Loewner framework. , 2016, , .		13
13	Modeling multi-port systems from frequency response data via tangential interpolation. , 2009, , .		10
14	Model Order Reduction: Methods, Concepts and Properties. Mathematics in Industry, 2015, , 159-265.	0.3	8
15	Data-driven approximation methods applied to non-rational functions. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800368.	0.2	6
16	Model order reduction of bilinear time-delay systems. , 2019, , .		5
17	Preserving the DAE structure in the Loewner model reduction and identification framework. Advances in Computational Mathematics, 2020, 46, 1.	1.6	4
18	The Loewner framework for nonlinear identification and reduction of Hammerstein cascaded dynamical systems. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000337.	0.2	3

#	ARTICLE	IF	CITATIONS
19	Model Order Reduction of Switched Linear Systems with Constrained Switching. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2020, , 41-53.	0.2	3
20	Data-driven modeling and control of large-scale dynamical systems in the Loewner framework. Handbook of Numerical Analysis, 2022, 23, 499-530.	1.8	3
21	A two-sided iterative framework for model reduction of linear systems with quadratic output. , 2019, , .		2
22	A bilinear identification modeling framework from time domain data. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900246.	0.2	2
23	An educational perspective to model and controller reduction of dynamical systems. , 2007, , .		1
24	On Hankel Singular Values and Reflected Zeros of Linear Dynamical Systems. IEEE Transactions on Automatic Control, 2009, 54, 641-646.	5.7	1
25	Connecting vector fitting to barycentric interpolation and the Loewner matrix. , 2013, , .		1
26	On the H_2 norm and iterative model order reduction of linear switched systems. , 2018, , .		1
27	Data-driven modeling from noisy measurements. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000358.	0.2	1
28	Model reduction of linear hybrid systems. , 2020, , .		1
29	On computing reduced-order bilinear models from time-domain data. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
30	Data-driven (Bilinear) identification and reduction. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000346.	0.2	0
31	Learning reduced-order models of quadratic dynamical systems from input-output data. , 2021, , .		0