Athanasios C Antoulas

List of Publications by Year
in descending order

		1040056	752698
31 papers	**2,919** citations	**9** h-index	**20** g-index
33 all docs	**33** docs citations	**33** times ranked	**1649** citing authors

#	Article	IF	Citations
1	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
2	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
3	Data€driven modeling from noisy measurements. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000358.	0.2	1
4	Data€driven (Bilinear) identification and reduction. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000346.	0.2	0
5	Learning reduced-order models of quadratic dynamical systems from input-output data. , 2021, , .		0
6	On computing reduced€order bilinear models from time€domain data. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
7	Preserving the DAE structure in the Loewner model reduction and identification framework. Advances in Computational Mathematics, 2020, 46, 1.	1.6	4
8	Model Order Reduction of Switched Linear Systems with Constrained Switching. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2020, , 41-53.	0.2	3
9	Model reduction of linear hybrid systems. , 2020, , .		1
10	Model order reduction of bilinear time-delay systems. , 2019, , .		5
11	A two-sided iterative framework for model reduction of linear systems with quadratic output. , 2019, , .		2
12	A bilinear identification€modeling framework from time domain data. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900246.	0.2	2
13	Balanced truncation for linear switched systems. Advances in Computational Mathematics, 2018, 44, 1845-1886.	1.6	16
14	On the H<inf>2</inf> norm and iterative model order reduction of linear switched systems. , 2018, , .		1
15	Data€driven approximation methods applied to non€rational functions. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800368.	0.2	6
16	A novel mathematical method for disclosing oscillations in gene transcription: A comparative study. PLoS ONE, 2018, 13, e0198503.	2.5	23
17	Data€driven model order reduction of quadratic€bilinear systems. Numerical Linear Algebra With Applications, 2018, 25, e2200.	1.6	55
18	A Cell-Autonomous Mammalian 12Âhr Clock Coordinates Metabolic and Stress Rhythms. Cell Metabolism, 2017, 25, 1305-1319.e9.	16.2	119

#	Article	IF	Citations
19	Chapter 8: A Tutorial Introduction to the Loewner Framework for Model Reduction. , 2017, , 335-376.		54
20	Stability preserving post-processing methods applied in the Loewner framework. , 2016, , .		13
21	Model Order Reduction: Methods, Concepts and Properties. Mathematics in Industry, 2015, , 159-265.	0.3	8
22	On the Convergence of the Vector-Fitting Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1435-1443.	4.6	30
23	Interpolatory weighted- model reduction. Automatica, 2013, 49, 1275-1280.	5.0	29
24	Connecting vector fitting to barycentric interpolation and the Loewner matrix. , 2013, , .		1
25	Interpolatory Model Reduction of Large-Scale Dynamical Systems. , 2010, , 3-58.		98
26	Modeling multi-port systems from frequency response data via tangential interpolation. , 2009, , .		10
27	On Hankel Singular Values and Reflected Zeros of Linear Dynamical Systems. IEEE Transactions on Automatic Control, 2009, 54, 641-646.	5.7	1
28	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
29	An educational perspective to model and controller reduction of dynamical systems. , 2007, , .		1
30	Model reduction of large-scale systems by least squares. Linear Algebra and Its Applications, 2006, 415, 290-321.	0.9	46
31	A Survey of Model Reduction by Balanced Truncation and Some New Results. International Journal of Control, 2004, 77, 748-766.	1.9	624