

Davide Lasagna

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

170
citations

1163117

8
h-index

1125743

13
g-index

26
all docs

26
docs citations

26
times ranked

148
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-time delay, multi-point linear stochastic estimation of a cavity shear layer velocity from wall-pressure measurements. <i>Physics of Fluids</i> , 2013, 25, 017101.	4.0	28
2	Effects of a trapped vortex cell on a thick wing airfoil. <i>Experiments in Fluids</i> , 2011, 51, 1369-1384.	2.4	22
3	Sensitivity Analysis of Chaotic Systems Using Unstable Periodic Orbits. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 547-580.	1.6	19
4	Periodic shadowing sensitivity analysis of chaotic systems. <i>Journal of Computational Physics</i> , 2019, 391, 119-141.	3.8	14
5	Sum-of-squares of polynomials approach to nonlinear stability of fluid flows: an example of application. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150622.	2.1	11
6	Nonlinear Multi-Time-Delay Stochastic Estimation: Application to Cavity Flow and Turbulent Channel Flow. <i>AIJA Journal</i> , 2015, 53, 2920-2935.	2.6	10
7	Sum-of-squares approach to feedback control of laminar wake flows. <i>Journal of Fluid Mechanics</i> , 2016, 809, 628-663.	3.4	9
8	The1-based sparsification of energy interactions in unsteady lid-driven cavity flow. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	3.4	9
9	Sensitivity of long periodic orbits of chaotic systems. <i>Physical Review E</i> , 2020, 102, 052220.	2.1	7
10	Streamwise vortices originating from synthetic jet-turbulent boundary layer interaction. <i>Fluid Dynamics Research</i> , 2014, 46, 015501.	1.3	6
11	Virtual Shaping on NACA 0015 by Means of a High Momentum Coefficient Synthetic Jet. <i>International Journal of Flow Control</i> , 2011, 3, 255-276.	0.4	5
12	Noise Filtering for Wall-Pressure Fluctuations in Measurements Around a Cylinder With Laminar and Turbulent Flow Separation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	1.5	4
13	Hollow vortices and wakes past Chaplygin cusps. <i>European Journal of Mechanics, B/Fluids</i> , 2013, 38, 78-84.	2.5	3
14	Flow regimes in a simplified Taylor-Couette-type flow model. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 57, 176-191.	2.5	3
15	Expensive Control of Long-Time Averages Using Sum of Squares and Its Application to A Laminar Wake Flow. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 2073-2086.	5.2	3
16	Finding unstable periodic orbits: A hybrid approach with polynomial optimization. <i>Physica D: Nonlinear Phenomena</i> , 2021, 427, 133009.	2.8	3
17	Linearised Reynolds-averaged predictions of secondary currents in turbulent channels with topographic heterogeneity. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	3.4	3
18	Wall-based reduced-order modelling. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 80, 511-535.	1.6	2

#	ARTICLE	IF	CITATIONS
19	l1-based calibration of POD-Galerkin models of two-dimensional unsteady flows. Chinese Journal of Aeronautics, 2021, 34, 226-236.	5.3	2
20	Circular cylinder drag reduction using piezoelectric actuators. Advances in Aircraft and Spacecraft Science, 2014, 1, 27-41.	0.5	2
21	Nonlinear stability analysis of fluid flow using sum of squares of polynomials. , 2013, , .		1
22	Long-time average cost control of polynomial systems: A sum of squares approach. , 2015, , .		1
23	Controlling fluid flows with positive polynomials. , 2016, , .		1
24	Flow regimes in a trapped vortex cell. Experiments in Fluids, 2016, 57, 1.	2.4	1
25	<i>A priori</i> sparsification of Galerkin models. Journal of Fluid Mechanics, 2022, 941, .	3.4	1
26	Stochastic estimation of cavity shear layer and fully developed turbulent channel flows: linear and non linear multi-time-delay analyses. , 2014, , .		0