

Lionel Mathelin

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

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citations

1163117

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17
all docs

17
docs citations

17
times ranked

367
citing authors

#	ARTICLE	IF	CITATIONS
1	Shallow neural networks for fluid flow reconstruction with limited sensors. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200097.	2.1	95
2	A dynamic mode decomposition approach for large and arbitrarily sampled systems. Physics of Fluids, 2015, 27, 025113.	4.0	76
3	Randomized Dynamic Mode Decomposition. SIAM Journal on Applied Dynamical Systems, 2019, 18, 1867-1891.	1.6	63
4	Dual-based <i>a posteriori</i> error estimate for stochastic finite element methods. Communications in Applied Mathematics and Computational Science, 2007, 2, 83-115.	1.8	45
5	Spatio-temporal proper orthogonal decomposition of turbulent channel flow. Journal of Fluid Mechanics, 2019, 864, 614-639.	3.4	43
6	A statistical learning strategy for closed-loop control of fluid flows. Theoretical and Computational Fluid Dynamics, 2016, 30, 497-510.	2.2	26
7	Observable Dictionary Learning for High-Dimensional Statistical Inference. Archives of Computational Methods in Engineering, 2018, 25, 103-120.	10.2	22
8	A compressed-sensing approach for closed-loop optimal control of nonlinear systems. Theoretical and Computational Fluid Dynamics, 2012, 26, 319-337.	2.2	12
9	A machine learning approach for constrained sensor placement. , 2015, , .		7
10	QUANTIFICATION OF UNCERTAINTY FROM HIGH-DIMENSIONAL SCATTERED DATA VIA POLYNOMIAL APPROXIMATION. , 2014, 4, 243-271.		6
11	Theoretical investigation of some thermal effects in turbulence modeling. Theoretical and Computational Fluid Dynamics, 2008, 22, 471-483.	2.2	4
12	A continuous reinforcement learning strategy for closed-loop control in fluid dynamics. , 2017, , .		4
13	Dual-based error analysis for uncertainty quantification in a chemical system. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2010007-2010008.	0.2	3
14	Stochastic data assimilation of the random shallow water model loads with uncertain experimental measurements. Computational Mechanics, 2011, 47, 603-616.	4.0	3
15	Coherent structure identification in turbulent channel flow using latent Dirichlet allocation. Journal of Fluid Mechanics, 2021, 920, .	3.4	2
16	Uncertainty quantification in a chemical system using error estimate-based mesh adaption. Theoretical and Computational Fluid Dynamics, 2012, 26, 415-434.	2.2	1
17	An adaptive compressed-sensing equation-free approach for closed-loop nonlinear control. , 2011, , .		0