

# Kai Fukami

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3056904/publications.pdf>

Version: 2024-02-01

21  
papers

1,641  
citations

516215

16  
h-index

839053

18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Super-resolution reconstruction of turbulent flows with machine learning. <i>Journal of Fluid Mechanics</i> , 2019, 870, 106-120.	1.4	356
2	Nonlinear mode decomposition with convolutional neural networks for fluid dynamics. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	1.4	178
3	Machine-learning-based spatio-temporal super resolution reconstruction of turbulent flows. <i>Journal of Fluid Mechanics</i> , 2021, 909, .	1.4	126
4	Assessment of supervised machine learning methods for fluid flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2020, 34, 497-519.	0.9	115
5	Convolutional neural network based hierarchical autoencoder for nonlinear mode decomposition of fluid field data. <i>Physics of Fluids</i> , 2020, 32, .	1.6	110
6	Convolutional neural network and long short-term memory based reduced order surrogate for minimal turbulent channel flow. <i>Physics of Fluids</i> , 2021, 33, .	1.6	104
7	Machine-learning-based reduced-order modeling for unsteady flows around bluff bodies of various shapes. <i>Theoretical and Computational Fluid Dynamics</i> , 2020, 34, 367-383.	0.9	102
8	Synthetic turbulent inflow generator using machine learning. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	97
9	Global field reconstruction from sparse sensors with Voronoi tessellation-assisted deep learning. <i>Nature Machine Intelligence</i> , 2021, 3, 945-951.	8.3	79
10	CNN-LSTM based reduced order modeling of two-dimensional unsteady flows around a circular cylinder at different Reynolds numbers. <i>Fluid Dynamics Research</i> , 2020, 52, 065501.	0.6	75
11	Probabilistic neural networks for fluid flow surrogate modeling and data recovery. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	68
12	Experimental velocity data estimation for imperfect particle images using machine learning. <i>Physics of Fluids</i> , 2021, 33, .	1.6	50
13	Convolutional neural networks for fluid flow analysis: toward effective metamodeling and low dimensionalization. <i>Theoretical and Computational Fluid Dynamics</i> , 2021, 35, 633-658.	0.9	48
14	Sparse identification of nonlinear dynamics with low-dimensionalized flow representations. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	1.4	42
15	Generalization techniques of neural networks for fluid flow estimation. <i>Neural Computing and Applications</i> , 2022, 34, 3647-3669.	3.2	36
16	Model Order Reduction with Neural Networks: Application to Laminar and Turbulent Flows. <i>SN Computer Science</i> , 2021, 2, 1.	2.3	33
17	Identifying key differences between linear stochastic estimation and neural networks for fluid flow regressions. <i>Scientific Reports</i> , 2022, 12, 3726.	1.6	13
18	Data-Driven Reduced Order Modeling of Flows Around Two-Dimensional Bluff Bodies of Various Shapes. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Machine-learned super-resolution analysis of three-dimensional turbulent channel flow. The Proceedings of the Fluids Engineering Conference, 2019, 2019, OS8-01.	0.0	4
20	Machine-learning-based reconstruction of transient vortex-airfoil wake interaction. , 2022, , .		1
21	CNN-SINdy Based Reduced Order Modeling of Unsteady Flow Fields. , 2019, , .		0