

Stefan Klus

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

986
citations

687220

13
h-index

434063

31
g-index

34
all docs

34
docs citations

34
times ranked

573
citing authors

#	ARTICLE	IF	CITATIONS
1	Deeptime: a Python library for machine learning dynamical models from time series data. Machine Learning: Science and Technology, 2022, 3, 015009.	2.4	37
2	Koopman analysis of quantum systems*. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 314002.	0.7	5
3	Estimation of Koopman Transfer Operators for the Equatorial Pacific SST. Journals of the Atmospheric Sciences, 2021, 78, 1227-1244.	0.6	4
4	Data-driven model reduction of agent-based systems using the Koopman generator. PLoS ONE, 2021, 16, e0250970.	1.1	6
5	Feature space approximation for kernel-based supervised learning. Knowledge-Based Systems, 2021, 221, 106935.	4.0	3
6	Symmetric and antisymmetric kernels for machine learning problems in quantum physics and chemistry. Machine Learning: Science and Technology, 2021, 2, 045016.	2.4	9
7	Tensor-based computation of metastable and coherent sets. Physica D: Nonlinear Phenomena, 2021, 427, 133018.	1.3	4
8	Dimensionality Reduction of Complex Metastable Systems via Kernel Embeddings of Transition Manifolds. Journal of Nonlinear Science, 2021, 31, 1.	1.0	9
9	Diffusion maps tailored to arbitrary non-degenerate It \tilde{A} processes. Applied and Computational Harmonic Analysis, 2020, 48, 242-265.	1.1	11
10	On the equivariance properties of self-adjoint matrices. Dynamical Systems, 2020, 35, 197-215.	0.2	0
11	Eigendecompositions of Transfer Operators in Reproducing Kernel Hilbert Spaces. Journal of Nonlinear Science, 2020, 30, 283-315.	1.0	52
12	Kernel-Based Approximation of the Koopman Generator and Schr \tilde{A} rdinger Operator. Entropy, 2020, 22, 722.	1.1	26
13	GraphKKE: graph Kernel Koopman embedding for human microbiome analysis. Applied Network Science, 2020, 5, .	0.8	3
14	Data-driven approximation of the Koopman generator: Model reduction, system identification, and control. Physica D: Nonlinear Phenomena, 2020, 406, 132416.	1.3	128
15	Feedback Control of Nonlinear PDEs Using Data-Efficient Reduced Order Models Based on the Koopman Operator. Lecture Notes in Control and Information Sciences, 2020, , 257-282.	0.6	4
16	Singular Value Decomposition of Operators on Reproducing Kernel Hilbert Spaces. Studies in Systems, Decision and Control, 2020, , 109-131.	0.8	0
17	Continuous relaxations for the traveling salesman problem. Nonlinear Dynamics, 2019, 97, 2003-2022.	2.7	3
18	Learning Chemical Reaction Networks from Trajectory Data. SIAM Journal on Applied Dynamical Systems, 2019, 18, 2000-2046.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Multidimensional Approximation of Nonlinear Dynamical Systems. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	31
20	Koopman operator-based model reduction for switched-system control of PDEs. Automatica, 2019, 106, 184-191.	3.0	114
21	Tensor-Based Algorithms for Image Classification. Algorithms, 2019, 12, 240.	1.2	11
22	Kernel methods for detecting coherent structures in dynamical data. Chaos, 2019, 29, 123112.	1.0	17
23	Data-Driven Model Reduction and Transfer Operator Approximation. Journal of Nonlinear Science, 2018, 28, 985-1010.	1.0	192
24	Transition Manifolds of Complex Metastable Systems. Journal of Nonlinear Science, 2018, 28, 471-512.	1.0	36
25	A kernel-based approach to molecular conformation analysis. Journal of Chemical Physics, 2018, 149, 244109.	1.2	15
26	A spectral assignment approach for the graph isomorphism problem. Information and Inference, 2018, , .	0.9	2
27	Tensor-based dynamic mode decomposition. Nonlinearity, 2018, 31, 3359-3380.	0.6	41
28	A Set-Oriented Numerical Approach for Dynamical Systems with Parameter Uncertainty. SIAM Journal on Applied Dynamical Systems, 2017, 16, 120-138.	0.7	9
29	Nearest-neighbor interaction systems in the tensor-train format. Journal of Computational Physics, 2017, 341, 140-162.	1.9	10
30	Variational Koopman models: Slow collective variables and molecular kinetics from short off-equilibrium simulations. Journal of Chemical Physics, 2017, 146, 154104.	1.2	100
31	Sensing and control in symmetric networks. Dynamical Systems, 2017, 32, 61-79.	0.2	5
32	On the numerical approximation of the Perron-Frobenius and Koopman operator. Journal of Computational Dynamics, 2016, 3, 1-12.	0.4	76
33	Towards tensor-based methods for the numerical approximation of the Perron-Frobenius and Koopman operator. Journal of Computational Dynamics, 2016, 3, 139-161.	0.4	12
34	An efficient algorithm for the parallel solution of high-dimensional differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 3053-3062.	1.1	8