

Boris Kramer

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

728
citations

623734

14
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752698

20
g-index

30
all docs

30
docs citations

30
times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Lift & Learn: Physics-informed machine learning for large-scale nonlinear dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2020, 406, 132401.	2.8	139
2	Nonlinear Model Order Reduction via Lifting Transformations and Proper Orthogonal Decomposition. <i>AIAA Journal</i> , 2019, 57, 2297-2307.	2.6	91
3	Sparse Sensing and DMD-Based Identification of Flow Regimes and Bifurcations in Complex Flows. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 1164-1196.	1.6	67
4	Learning Physics-Based Reduced-Order Models for a Single-Injector Combustion Process. <i>AIAA Journal</i> , 2020, 58, 2658-2672.	2.6	61
5	Operator inference for non-intrusive model reduction of systems with non-polynomial nonlinear terms. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113433.	6.6	58
6	Combining multiple surrogate models to accelerate failure probability estimation with expensive high-fidelity models. <i>Journal of Computational Physics</i> , 2017, 341, 61-75.	3.8	34
7	Learning-based robust stabilization for reduced-order models of 2D and 3D Boussinesq equations. <i>Applied Mathematical Modelling</i> , 2017, 49, 162-181.	4.2	33
8	Multifidelity Preconditioning of the Cross-Entropy Method for Rare Event Simulation and Failure Probability Estimation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018, 6, 737-761.	2.0	31
9	Tangential interpolation-based eigensystem realization algorithm for MIMO systems. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2016, 22, 282-306.	2.2	25
10	Information Reuse for Importance Sampling in Reliability-Based Design Optimization. <i>Reliability Engineering and System Safety</i> , 2020, 201, 106853.	8.9	25
11	Hamiltonian operator inference: Physics-preserving learning of reduced-order models for canonical Hamiltonian systems. <i>Physica D: Nonlinear Phenomena</i> , 2022, 431, 133122.	2.8	22
12	Conditional-Value-at-Risk Estimation via Reduced-Order Models. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018, 6, 1395-1423.	2.0	18
13	Multifidelity probability estimation via fusion of estimators. <i>Journal of Computational Physics</i> , 2019, 392, 385-402.	3.8	17
14	Feedback Control for Systems with Uncertain Parameters Using Online-Adaptive Reduced Models. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 1563-1586.	1.6	16
15	System Identification via CUR-Factored Hankel Approximation. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A848-A866.	2.8	14
16	Full flux models for optimization and control of heat exchangers. , 2015, , .		12
17	Transform & Learn: A data-driven approach to nonlinear model reduction. , 2019, , .		12
18	Adaptive Reduced-Order Model Construction for Conditional Value-at-Risk Estimation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2020, 8, 668-692.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Certifiable Risk-Based Engineering Design Optimization. AIAA Journal, 2022, 60, 551-565.	2.6	10
20	Stability Domains for Quadratic-Bilinear Reduced-Order Models. SIAM Journal on Applied Dynamical Systems, 2021, 20, 981-996.	1.6	6
21	Model reduction for control of a multiphysics system: Coupled Burgers' equation. , 2016, , .		5
22	Balanced Reduced-Order Models for Iterative Nonlinear Control of Large-Scale Systems. , 2021, 5, 1699-1704.		4
23	A POD projection method for large-scale algebraic Riccati equations. Numerical Algebra, Control and Optimization, 2016, 6, 413-435.	1.6	4
24	Risk-Based Design Optimization Via Probability of Failure, Conditional Value-at-Risk, and Buffered Probability of Failure. , 2020, , .		3
25	Learning physics-based reduced-order models for a single-injector combustion process. , 2020, , .		3
26	Solving Algebraic Riccati Equations via Proper Orthogonal Decomposition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7767-7772.	0.4	2
27	Robust POD model stabilization for the 3D Boussinesq equations based on Lyapunov theory and extremum seeking. , 2017, , .		2
28	Performance comparison of data-driven reduced models for a single-injector combustion process. , 2021, , .		2
29	Balanced Reduced-Order Models for Iterative Nonlinear Control of Large-Scale Systems. , 2021, , .		1