

Bernard Haasdonk

List of Publications by Year in descending order

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38
papers

1,106
citations

687363

13
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414414

32
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all docs

39
docs citations

39
times ranked

715
citing authors

#	ARTICLE	IF	CITATIONS
1	Well-scaled, a-posteriori error estimation for model order reduction of large second-order mechanical systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900186.	1.6	1
2	Feedback control of parametrized PDEs via model order reduction and dynamic programming principle. Advances in Computational Mathematics, 2020, 46, 1.	1.6	4
3	Data-Driven Time Parallelism via Forecasting. SIAM Journal of Scientific Computing, 2019, 41, B466-B496.	2.8	4
4	Symplectic Model Order Reduction with Non-Orthonormal Bases. Mathematical and Computational Applications, 2019, 24, 43.	1.3	7
5	Enabling interactive mobile simulations through distributed reduced models. Pervasive and Mobile Computing, 2018, 45, 19-34.	3.3	2
6	Numerical modelling of a peripheral arterial stenosis using dimensionally reduced models and kernel methods. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3095.	2.1	20
7	Reduced basis approximation of large scale parametric algebraic Riccati equations. ESAIM - Control, Optimisation and Calculus of Variations, 2018, 24, 129-151.	1.3	8
8	Certified Reduced Basis Approximation for the Coupling of Viscous and Inviscid Parametrized Flow Models. Journal of Scientific Computing, 2018, 74, 197-219.	2.3	3
9	A Sensitivity Study of Error Estimation in Reduced Elastic Multibody Systems – The authors would like to thank the German Research Foundation (DFG) for financial support FE 1583/2-1 and HA 5821/5-1 of the project at the University of Stuttgart. IFAC-PapersOnLine, 2018, 51, 202-207.	0.9	1
10	Error Estimation for the Simulation of Elastic Multibody Systems. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800275.	0.2	2
11	An Algorithmic Comparison of the Hyper-Reduction and the Discrete Empirical Interpolation Method for a Nonlinear Thermal Problem. Mathematical and Computational Applications, 2018, 23, 8.	1.3	6
12	Server-assisted interactive mobile simulations for pervasive applications. , 2017, , .		8
13	Chapter 2: Reduced Basis Methods for Parametrized PDEs – A Tutorial Introduction for Stationary and Instationary Problems. , 2017, , 65-136.		56
14	Model Order Reduction Approaches for Infinite Horizon Optimal Control Problems via the HJB Equation. Modeling, Simulation and Applications, 2017, , 333-347.	1.3	4
15	PEBL-ROM: Projection-error based local reduced-order models. Advanced Modeling and Simulation in Engineering Sciences, 2016, 3, .	1.7	24
16	A reduced basis Landweber method for nonlinear inverse problems. Inverse Problems, 2016, 32, 035001.	2.0	14
17	Special Issue on Model Reduction. International Journal for Numerical Methods in Engineering, 2015, 102, 931-932.	2.8	8
18	A POD-EIM reduced two-scale model for crystal growth. Advances in Computational Mathematics, 2015, 41, 987-1013.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Certified PDE-constrained parameter optimization using reduced basis surrogate models for evolution problems. <i>Computational Optimization and Applications</i> , 2015, 60, 753-787.	1.6	25
20	Reduced basis approximation and a-posteriori error estimation for the coupled Stokes-Darcy system. <i>Advances in Computational Mathematics</i> , 2015, 41, 1131-1157.	1.6	30
21	Certified Nonlinear Parameter Optimization with Reduced Basis Surrogate Models. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013, 13, 3-6.	0.2	13
22	Convergence Rates of the PODâ€“Greedy Method. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2013, 47, 859-873.	1.9	79
23	Reduced Basis Model Reduction of Parametrized Twoâ€”Phase Flow in Porous Media. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 722-727.	0.4	2
24	A-Posteriori Error Estimation for Parameterized Kernel-Based Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 763-768.	0.4	1
25	Online Reduced Basis Construction Procedure for Model Reduction of Parametrized Evolution Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 112-117.	0.4	3
26	Reduced Basis Approximation for Nonlinear Parametrized Evolution Equations based on Empirical Operator Interpolation. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A937-A969.	2.8	138
27	Efficient parametric analysis of the chemical master equation through model order reduction. <i>BMC Systems Biology</i> , 2012, 6, 81.	3.0	5
28	A-posteriori error estimation for second order mechanical systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 854-862.	3.4	6
29	A Software Framework for Reduced Basis Methods Using Dune-RB and RBmatlab. , 2012, , 77-88.		4
30	Model order reduction and error estimation with an application to the parameter-dependent eddy current equation. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2011, 17, 561-582.	2.2	8
31	Efficient reduced models and a posteriori error estimation for parametrized dynamical systems by offline/online decomposition. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2011, 17, 145-161.	2.2	87
32	Special Issue on â€œModel Order Reduction of Parameterized Problemsâ€: <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2011, 17, 295-296.	2.2	1
33	A training set and multiple bases generation approach for parameterized model reduction based on adaptive grids in parameter space. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2011, 17, 423-442.	2.2	108
34	Kernel Discriminant Analysis for Positive Definite and Indefinite Kernels. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009, 31, 1017-1032.	13.9	91
35	Reduced basis method for finite volume approximations of parametrized linear evolution equations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2008, 42, 277-302.	1.9	266
36	Classification with Invariant Distance Substitution Kernels. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2008, , 37-44.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Invariant kernel functions for pattern analysis and machine learning. Machine Learning, 2007, 68, 35-61.	5.4	50
38	Sampling based approximation of linear functionals in reproducing kernel Hilbert spaces. BIT Numerical Mathematics, 0, , 1.	2.0	4