

Akitoshi Takayasu

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Singularities and heteroclinic connections in complex-valued evolutionary equations with a quadratic nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 107, 106188.	3.3	2
2	Rigorous numerics for nonlinear heat equations in the complex plane of time. <i>Numerische Mathematik</i> , 2022, 151, 693-750.	1.9	1
3	Verified partial eigenvalue computations using contour integrals for Hermitian generalized eigenproblems. <i>Journal of Computational and Applied Mathematics</i> , 2020, 369, 112543.	2.0	2
4	Numerical validation of blow-up solutions with quasi-homogeneous compactifications. <i>Numerische Mathematik</i> , 2020, 145, 605-654.	1.9	3
5	Rigorous numerics of blow-up solutions for ODEs with exponential nonlinearity. <i>Journal of Computational and Applied Mathematics</i> , 2020, 374, 112607.	2.0	4
6	Rigorous numerical computations for 1D advection equations with variable coefficients. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2019, 36, 357-384.	0.9	2
7	A Method of Verified Computations for Solutions to Semilinear Parabolic Equations Using Semigroup Theory. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 980-1001.	2.3	10
8	Numerical validation of blow-up solutions of ordinary differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2017, 314, 10-29.	2.0	22
9	Numerical verification for existence of a global-in-time solution to semilinear parabolic equations. <i>Journal of Computational and Applied Mathematics</i> , 2017, 315, 1-16.	2.0	13
10	Verified Computations for Hyperbolic 3-Manifolds. <i>Experimental Mathematics</i> , 2016, 25, 66-78.	0.7	18
11	On the embedding constant of the Sobolev type inequality for fractional derivatives. <i>Nonlinear Theory and Its Applications IEICE</i> , 2016, 7, 386-394.	0.6	0
12	Verified norm estimation for the inverse of linear elliptic operators using eigenvalue evaluation. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2014, 31, 665-679.	0.9	11
13	Remarks on computable a priori error estimates for finite element solutions of elliptic problems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2014, 5, 53-63.	0.6	4
14	An algorithm of identifying parameters satisfying a sufficient condition of Plum's Newton-Kantorovich like existence theorem for nonlinear operator equations. <i>Nonlinear Theory and Its Applications IEICE</i> , 2014, 5, 64-79.	0.6	0
15	A verified continuation algorithm for solution curve of nonlinear elliptic equations. <i>IEICE Proceeding Series</i> , 2014, 2, 441-444.	0.0	0
16	A computer-assisted proof method of the invertibility to elliptic operators. <i>IEICE Proceeding Series</i> , 2014, 1, 816-819.	0.0	0
17	Verified computations to semilinear elliptic boundary value problems on arbitrary polygonal domains. <i>Nonlinear Theory and Its Applications IEICE</i> , 2013, 4, 34-61.	0.6	20
18	A method of computer assisted proof for nonlinear two-point boundary value problems using higher order finite elements. <i>Nonlinear Theory and Its Applications IEICE</i> , 2011, 2, 74-89.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Numerical existence theorem for solutions of two-point boundary value problems of nonlinear differential equations. <i>Nonlinear Theory and Its Applications</i> IEICE, 2010, 1, 105-118.	0.6	6