

Akitoshi Takayasu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11284334/publications.pdf>

Version: 2024-02-01

19
papers

119
citations

1478505

6
h-index

1281871

11
g-index

19
all docs

19
docs citations

19
times ranked

41
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical validation of blow-up solutions of ordinary differential equations. Journal of Computational and Applied Mathematics, 2017, 314, 10-29.	2.0	22
2	Verified computations to semilinear elliptic boundary value problems on arbitrary polygonal domains. Nonlinear Theory and Its Applications IEICE, 2013, 4, 34-61.	0.6	20
3	Verified Computations for Hyperbolic 3-Manifolds. Experimental Mathematics, 2016, 25, 66-78.	0.7	18
4	Numerical verification for existence of a global-in-time solution to semilinear parabolic equations. Journal of Computational and Applied Mathematics, 2017, 315, 1-16.	2.0	13
5	Verified norm estimation for the inverse of linear elliptic operators using eigenvalue evaluation. Japan Journal of Industrial and Applied Mathematics, 2014, 31, 665-679.	0.9	11
6	A Method of Verified Computations for Solutions to Semilinear Parabolic Equations Using Semigroup Theory. SIAM Journal on Numerical Analysis, 2017, 55, 980-1001.	2.3	10
7	Numerical existence theorem for solutions of two-point boundary value problems of nonlinear differential equations. Nonlinear Theory and Its Applications IEICE, 2010, 1, 105-118.	0.6	6
8	Remarks on computable a priori error estimates for finite element solutions of elliptic problems. Nonlinear Theory and Its Applications IEICE, 2014, 5, 53-63.	0.6	4
9	Rigorous numerics of blow-up solutions for ODEs with exponential nonlinearity. Journal of Computational and Applied Mathematics, 2020, 374, 112607.	2.0	4
10	Numerical validation of blow-up solutions with quasi-homogeneous compactifications. Numerische Mathematik, 2020, 145, 605-654.	1.9	3
11	Rigorous numerical computations for 1D advection equations with variable coefficients. Japan Journal of Industrial and Applied Mathematics, 2019, 36, 357-384.	0.9	2
12	Verified partial eigenvalue computations using contour integrals for Hermitian generalized eigenproblems. Journal of Computational and Applied Mathematics, 2020, 369, 112543.	2.0	2
13	Singularities and heteroclinic connections in complex-valued evolutionary equations with a quadratic nonlinearity. Communications in Nonlinear Science and Numerical Simulation, 2022, 107, 106188.	3.3	2
14	A method of computer assisted proof for nonlinear two-point boundary value problems using higher order finite elements. Nonlinear Theory and Its Applications IEICE, 2011, 2, 74-89.	0.6	1
15	Rigorous numerics for nonlinear heat equations in the complex plane of time. Numerische Mathematik, 2022, 151, 693-750.	1.9	1
16	An algorithm of identifying parameters satisfying a sufficient condition of Plum's Newton-Kantorovich like existence theorem for nonlinear operator equations. Nonlinear Theory and Its Applications IEICE, 2014, 5, 64-79.	0.6	0
17	On the embedding constant of the Sobolev type inequality for fractional derivatives. Nonlinear Theory and Its Applications IEICE, 2016, 7, 386-394.	0.6	0
18	A verified continuation algorithm for solution curve of nonlinear elliptic equations. IEICE Proceeding Series, 2014, 2, 441-444.	0.0	0

#	ARTICLE	IF	CITATIONS
19	A computer-assisted proof method of the invertibility to elliptic operators. IEICE Proceeding Series, 2014, 1, 816-819.	0.0	0