Shin'ichi Oishi

List of Publications by Year
in descending order

48 papers	202 citations	1307594 7 h-index	1058476 14 g-index
48 all docs	48 docs citations	48 times ranked	69 citing authors

#	Article	IF	Citations
1	Fast verification of solutions of matrix equations. Numerische Mathematik, 2002, 90, 755-773.	1.9	47
2	Numerical verification of existence and inclusion of solutions for nonlinear operator equations. Journal of Computational and Applied Mathematics, 1995, 60, 171-185.	2.0	35
3	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
4	Fast high precision summation. Nonlinear Theory and Its Applications IEICE, 2010, 1, 2-24.	0.6	15
5	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
6	Estimation of Sobolev embedding constant on a domain dividable into bounded convex domains. Journal of Inequalities and Applications, 2017, 2017, 299.	1.1	12
7	Tight and efficient enclosure of matrix multiplication by using optimized BLAS. Numerical Linear Algebra With Applications, 2011, 18, 237-248.	1.6	10
8	Generalization of error-free transformation for matrix multiplication and its application. Nonlinear Theory and Its Applications IEICE, 2013, 4, 2-11.	0.6	5
9	Addendum to â€œSufficient Conditions for the Existence of a Primitive Chaotic Behaviorâ€. Journal of the Physical Society of Japan, 2011, 80, 067002.	1.6	4
10	Consideration of a Primitive Chaos. Journal of the Physical Society of Japan, 2012, 81, 103001.	1.6	4
11	A modified algorithm for accurate inverse Cholesky factorization. Nonlinear Theory and Its Applications IEICE, 2014, 5, 35-46.	0.6	4
12	Constructive analysis for infinite-dimensional nonlinear systemsâ€"infinite-dimensional version of homotopy method. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1991, 74, 1-10.	0.1	3
13	Numerical Verification of Solutions of Periodic Integral Equations with a Singular Kernel. Numerical Algorithms, 2004, 37, 301-310.	1.9	3
14	Discretization Principles for Linear Two-Point Boundary Value Problems, II. Numerical Functional Analysis and Optimization, 2008, 29, 213-224.	1.4	3
15	Property Leading to Morphological Instability. Journal of the Physical Society of Japan, 2011, 80, 113002.	1.6	3
16	Interval arithmetic with fixed rounding mode. Nonlinear Theory and Its Applications IEICE, 2016, 7, 362-373.	0.6	3
17	An algorithm for finding all solutions of parameter-dependent nonlinear equations with guaranteed accuracy. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq1 1 0.784314 rgBT /Ove		
18	Numerical verification of nonexistence of solutions for separable nonlinear equations and its application to all solutions algorithm. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 2003, 86, 45-53.	0.1	2

#	Article	IF	Citations
19	Addendum to "Property Leading to Morphological Instability" Journal of the Physical Society of Japan, 2012, 81, 077001.	1.6	2
20	The Korteweg-de Vries Equation under Slowly Decreasing Boundary Condition. Journal of the Physical Society of Japan, 1980, 48, 349-350.	1.6	2
21	Simplicial fixed points algorithms for finding several solutions of nonlinear circuits. Electronics and Communications in Japan, 1984, 67, 1-10.	0.1	1
22	A decomposition method and acceleration techniques for a fixed point algorithm. Electronics and Communications in Japan, 1984, 67, 1-9.	0.1	1
23	On principal partition of matroids with parity condition into strongly irreducible minors pairs. Electronics and Communications in Japan, 1985, 68, 10-19.	0.1	1
24	Computational complexity of the homotopy method for calculating solutions of strongly monotonic resistive circuit equations. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1991, 74, 90-100.	0.1	1
25	Numerical validation method for nonlinear equations using interval analysis and rational arithmetic. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		
26	Discretization Principles for Linear Two-Point Boundary Value Problems, III. Numerical Functional Analysis and Optimization, 2008, 29, 1180-1200.	1.4	1
27	Error-free transformation of matrix multiplication with a posteriori validation. Numerical Linear Algebra With Applications, 2016, 23, 931-946.	1.6	1
28	Numerical verification methods for a system of elliptic PDEs, and their software library. Nonlinear Theory and Its Applications IEICE, 2021, 12, 41-74.	0.6	1
29	A modified algorithm for accurate inverse Cholesky factorization. IEICE Proceeding Series, 2014, 2, 437-437.	0.0	1
30	A Thought for the Fundamentals Review at the Starting Time. Ieice Ess Fundamentals Review, 2017, 10, 236-237.	0.1	1
31	Algorithms for solving systems of nonlinear equations by Kevorkian's decomposition method and their quadratic convergence property. Electronics and Communications in Japan, 1983, 66, 33-41.	0.1	0
32	Vector labelling method in fixed points algorithm and array processors. Electronics and Communications in Japan, 1983, 66, 51-59.	0.1	0
33	A constructive approach to the analysis of nonlinear resistive circuits based on the fixed point algorithm theory. Electronics and Communications in Japan, 1985, 68, 11-18.	0.1	0
34	Simplicial homotopy method for the solution of nonlinear two-point boundary value problems. Electronics and Communications in Japan, 1985, 68, 40-48.	0.1	0
35	Singular point analysis for dynamical systems with many parameters-an application to an asymmetrically and densely connected neural network model. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	0
36	An Algorithm for Iteratively Refining the Interval Including the Solution Set of Parameter-Dependent Nonlinear Equations. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 2002, 85, 39-44.	0.1	0

#	Article	IF	Citations
37	Verified computation of a disc containing exactly *k* roots of a univariate nonlinear function. Nonlinear Theory and Its Applications IEICE, 2010, 1, 89-96.	0.6	0
38	Fast quadruple-double floating point format. Nonlinear Theory and Its Applications IEICE, 2014, 5, 15-34.	0.6	0
39	Consideration about a Teaching Method of Circuit Theory. Ieice Ess Fundamentals Review, 2014, 7, 301-307.	0.1	0
40	Inclusion of periodic solutions for forced delay differential equation modeling El NiÃ±o. Nonlinear Theory and Its Applications IEICE, 2021, 12, 575-610.	0.6	0
41	A theorem on a solution curve of a class of nonlinear equations. IEICE Proceeding Series, 2014, 1, 288-291.	0.0	0
42	Fast Multiprecision Algorithm like Quad-Double Arithmetic. IEICE Proceeding Series, 2014, 2, 433-436.	0.0	0
43	A verified continuation algorithm for solution curve of nonlinear elliptic equations. IEICE Proceeding Series, 2014, 2, 441-444.	0.0	0
44	Accurate and Rigorous Logarithm Function Algorithm. IEICE Proceeding Series, 2014, 1, 820-823.	0.0	0
45	Guaranteed high precision estimation for interpolation error constant. IEICE Proceeding Series, 2014, 2, 439-440.	0.0	0
46	Memory Reduced Implementation of Error-Free Transformation of Matrix Multiplication and its Performance. IEICE Proceeding Series, 2014, 1, 877-880.	0.0	0
47	A computer-assisted proof method of the invertibility to elliptic operators. IEICE Proceeding Series, 2014, 1, 816-819.	0.0	0
48	Inverse norm estimation of perturbed Laplace operators and corresponding eigenvalue problems. Computers and Mathematics With Applications, 2022, 106, 18-26.	2.7	0