# Shin'ichi Oishi

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Inverse norm estimation of perturbed Laplace operators and corresponding eigenvalue problems. Computers and Mathematics With Applications, 2022, 106, 18-26. | 2.7 | 0 |
| 2 | 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 |
| 3 | 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 |
| 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 | Estimation of Sobolev embedding constant on a domain dividable into bounded convex domains. Journal of Inequalities and Applications, 2017, 2017, 299. | 1.1 | 12 |
| 6 | A Thought for the Fundamentals Review at the Starting Time. Ieice Ess Fundamentals Review, 2017, 10, 236-237. | 0.1 | 1 |
| 7 | Errorâ€free transformation of matrix multiplication with a posteriori validation. Numerical Linear Algebra With Applications, 2016, 23, 931-946. | 1.6 | 1 |
| 8 | Interval arithmetic with fixed rounding mode. Nonlinear Theory and Its Applications IEICE, 2016, 7, 362-373. | 0.6 | 3 |
| 9 | Fast quadruple-double floating point format. Nonlinear Theory and Its Applications IEICE, 2014, 5, 15-34. | 0.6 | 0 |
| 10 | Consideration about a Teaching Method of Circuit Theory. Ieice Ess Fundamentals Review, 2014, 7, 301-307. | 0.1 | 0 |
| 11 | A modified algorithm for accurate inverse Cholesky factorization. Nonlinear Theory and Its Applications IEICE, 2014, 5, 35-46. | 0.6 | 4 |
| 12 | A theorem on a solution curve of a class of nonlinear equations. IEICE Proceeding Series, 2014, 1, 288-291. | 0.0 | 0 |
| 13 | Fast Multiprecision Algorithm like Quad-Double Arithmetic. IEICE Proceeding Series, 2014, 2, 433-436. | 0.0 | 0 |
| 14 | A verified continuation algorithm for solution curve of nonlinear elliptic equations. IEICE Proceeding Series, 2014, 2, 441-444. | 0.0 | 0 |
| 15 | Accurate and Rigorous Logarithm Function Algorithm. IEICE Proceeding Series, 2014, 1, 820-823. | 0.0 | 0 |
| 16 | Guaranteed high precision estimation for interpolation error constant. IEICE Proceeding Series, 2014, 2, 439-440. | 0.0 | 0 |
| 17 | Memory Reduced Implementation of Error-Free Transformation of Matrix Multiplication and its Performance. IEICE Proceeding Series, 2014, 1, 877-880. | 0.0 | 0 |
| 18 | A computer-assisted proof method of the invertibility to elliptic operators. IEICE Proceeding Series, 2014, 1, 816-819. | 0.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 19 | A modified algorithm for accurate inverse Cholesky factorization. IEICE Proceeding Series, 2014, 2, 437-437. | 0.0 | 1 |
| 20 | Generalization of error-free transformation for matrix multiplication and its application. Nonlinear Theory and Its Applications IEICE, 2013, 4, 2-11. | 0.6 | 5 |
| 21 | 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 |
| 22 | Consideration of a Primitive Chaos. Journal of the Physical Society of Japan, 2012, 81, 103001. | 1.6 | 4 |
| 23 | Addendum to â€œProperty Leading to Morphological Instabilityâ€. Journal of the Physical Society of Japan, 2012, 81, 077001. | 1.6 | 2 |
| 24 | 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 |
| 25 | Tight and efficient enclosure of matrix multiplication by using optimized BLAS. Numerical Linear Algebra With Applications, 2011, 18, 237-248. | 1.6 | 10 |
| 26 | Property Leading to Morphological Instability. Journal of the Physical Society of Japan, 2011, 80, 113002. | 1.6 | 3 |
| 27 | Fast high precision summation. Nonlinear Theory and Its Applications IEICE, 2010, 1, 2-24. | 0.6 | 15 |
| 28 | 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 |
| 29 | Discretization Principles for Linear Two-Point Boundary Value Problems, III. Numerical Functional Analysis and Optimization, 2008, 29, 1180-1200. | 1.4 | 1 |
| 30 | Discretization Principles for Linear Two-Point Boundary Value Problems, II. Numerical Functional Analysis and Optimization, 2008, 29, 213-224. | 1.4 | 3 |
| 31 | Numerical Verification of Solutions of Periodic Integral Equations with a Singular Kernel. Numerical Algorithms, 2004, 37, 301-310. | 1.9 | 3 |
| 32 | 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 |
| 33 | 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 |
| 34 | Fast verification of solutions of matrix equations. Numerische Mathematik, 2002, 90, 755-773. | 1.9 | 47 |
| 35 | 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) | 0.1 | 0 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | 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 | | |
| 38 | 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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 T | 0.1 | 0 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Simplicial homotopy method for the solution of nonlinear twoâ€point boundary value problems. Electronics and Communications in Japan, 1985, 68, 40-48. | 0.1 | 0 |
| 44 | Simplicial fixed points algorithms for finding several solutions of nonlinear circuits. Electronics and Communications in Japan, 1984, 67, 1-10. | 0.1 | 1 |
| 45 | A decomposition method and acceleration techniques for a fixed point algorithm. Electronics and Communications in Japan, 1984, 67, 1-9. | 0.1 | 1 |
| 46 | 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 |
| 47 | Vector labelling method in fixed points algorithm and array processors. Electronics and Communications in Japan, 1983, 66, 51-59. | 0.1 | 0 |
| 48 | The Korteweg-de Vries Equation under Slowly Decreasing Boundary Condition. Journal of the Physical Society of Japan, 1980, 48, 349-350. | 1.6 | 2 |