

# Takeshi Iwashita

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Convergence Acceleration of Time-Periodic Electromagnetic Field Analysis by the Singularity Decomposition-Explicit Error Correction Method. IEEE Transactions on Magnetics, 2010, 46, 2947-2950.	2.1	36
2	Parallel Time-Periodic Finite-Element Method for Steady-State Analysis of Rotating Machines. IEEE Transactions on Magnetics, 2012, 48, 1019-1022.	2.1	34
3	Algebraic Block Multi-Color Ordering Method for Parallel Multi-Threaded Sparse Triangular Solver in ICCG Method. , 2012, , .		30
4	Similarities Between Implicit Correction Multigrid Method and A-phi Formulation in Electromagnetic Field Analysis. IEEE Transactions on Magnetics, 2008, 44, 946-949.	2.1	26
5	Block Red-Black Ordering: A New Ordering Strategy for Parallelization of ICCG Method. International Journal of Parallel Programming, 2003, 31, 55-75.	1.5	22
6	Comparison Criteria for Parallel Orderings in ILU Preconditioning. SIAM Journal of Scientific Computing, 2005, 26, 1234-1260.	2.8	20
7	Time-Domain Parallel Finite-Element Method for Fast Magnetic Field Analysis of Induction Motors. IEEE Transactions on Magnetics, 2013, 49, 2413-2416.	2.1	20
8	Software Framework for Parallel BEM Analyses with H-matrices Using MPI and OpenMP. Procedia Computer Science, 2017, 108, 2200-2209.	2.0	19
9	Convergence Acceleration in Steady State Analysis of Synchronous Machines Using Time-Periodic Explicit Error Correction Method. IEEE Transactions on Magnetics, 2011, 47, 1422-1425.	2.1	18
10	Convergence Acceleration of Iterative Solvers for the Finite Element Analysis Using the Implicit and Explicit Error Correction Methods. IEEE Transactions on Magnetics, 2009, 45, 1104-1107.	2.1	13
11	Parallel Performance of Multithreaded ICCG Solver Based on Algebraic Block Multicolor Ordering in Finite Element Electromagnetic Field Analyses. IEEE Transactions on Magnetics, 2013, 49, 1581-1584.	2.1	12
12	Parallel TP-EEC Method Based on Phase Conversion for Time-Periodic Nonlinear Magnetic Field Problems. IEEE Transactions on Magnetics, 2015, 51, 1-5.	2.1	12
13	Parallel Finite-Element Method Based on Space-Time Domain Decomposition for Magnetic Field Analysis of Electric Machines. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	12
14	Folded Preconditioner: A New Class of Preconditioners for Krylov Subspace Methods to Solve Redundancy-Reduced Linear Systems of Equations. IEEE Transactions on Magnetics, 2009, 45, 2068-2075.	2.1	10
15	Application of Hierarchical Matrices to Large-Scale Electromagnetic Field Analyses of Coils Wound With Coated Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	8
16	Physical Meaning of the Advantage of A-phi Method in Convergence. IEEE Transactions on Magnetics, 2009, 45, 1424-1427.	2.1	5
17	Application of Improved H-Matrices in Micromagnetic Simulations of Spin Torque Oscillator. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	5
18	Improvement of Convergence Characteristic in Nonlinear Transient Eddy-Current Analyses using the Error Correction of Time Integration based on the Time-Periodic FEM and the EEC Method. IEEE Transactions on Power and Energy, 2009, 129, 791-798.	0.2	5

#	ARTICLE	IF	CITATIONS
19	Effect of Mixed Precision Computing on H-Matrix Vector Multiplication in BEM Analysis. , 2020, , .		3
20	Automatic Determination of Acceleration Factor Based on Residual and Functional in Shifted ICCG Method for 3-D Electromagnetic Field Analyses. IEEE Transactions on Magnetics, 2013, 49, 1741-1744.	2.1	2
21	Automatic mapping operator construction for subspace correction method to solve a series of linear systems. JSIAM Letters, 2017, 9, 25-28.	0.5	2
22	Acceleration of Transient Non-Linear Electromagnetic Field Analyses Using an Automated Subspace Correction Method. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	2
23	Comparison of Parallel-in-Space-and-Time Finite-Element Methods for Magnetic Field Analysis of Electric Machines. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	2
24	A Parallel Multigrid Solver for High Frequency Electromagnetic Field Analyses with Small-scale PC Cluster. IEEJ Transactions on Power and Energy, 2007, 127, 911-917.	0.2	2
25	A Novel Algebraic Multigrid Preconditioning for Large-Scale Edge-Element Analyses. IEEE Transactions on Magnetics, 2007, 43, 1481-1484.	2.1	1
26	New Preconditioning Technique to Avoid Convergence Deterioration Due to the Zero-Tree Gauge Condition in Magnetostatic Analysis. IEEE Transactions on Magnetics, 2010, 46, 2579-2584.	2.1	1
27	Parallel TP-EEC Method Based on Polyphase Time-Periodic Condition for Magnetic Field Analysis of Induction Motors. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	1
28	Hierarchical block multi-color ordering: a new parallel ordering method for vectorization and parallelization of the sparse triangular solver in the ICCG method. CCF Transactions on High Performance Computing, 2020, 2, 84-97.	1.7	1
29	Effectiveness of Iterative Method with Folded Preconditioning for Practical Finite Element Electromagnetic Field Analyses. IEEJ Transactions on Industry Applications, 2013, 133, 203-213.	0.2	1