David E Keyes

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A scheduling policy to save 10% of communication time in parallel fast Fourier transform. Concurrency Computation Practice and Experience, 2023, 35, e6508. | 1.4 | 2 |
| 2 | Accelerating Geostatistical Modeling and Prediction With Mixed-Precision Computations: A High-Productivity Approach With PaRSEC. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 964-976. | 4.0 | 14 |
| 3 | tlrmvnmvt : Computing High-Dimensional Multivariate Normal and Student- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns="http://www.w3.org/1998/Math/MathML"> <mml:mrow><mml:mi>t</mml:mi></mml:mrow> Probabilities with Low-Rank Methods in <i>R</i>. lournal of Statistical Software, 2022, 101, .</mml:math | 1.8 | 1 |
| 4 | Nonuniform 3D finite-difference elastic wave simulation on staggered grids. Geophysics, 2022, 87, T347-T361. | 1.4 | 3 |
| 5 | Space-Fractional Diffusion with Variable Order and Diffusivity: Discretization and Direct Solution Strategies. Communications on Applied Mathematics and Computation, 2022, 4, 1416-1440. | 0.7 | 3 |
| 6 | High-performance 3D Unstructured Mesh Deformation Using Rank Structured Matrix Computations. ACM Transactions on Parallel Computing, 2022, 9, 1-23. | 1.2 | 2 |
| 7 | H2Opus: a distributed-memory multi-GPU software package for non-local operators. Advances in Computational Mathematics, 2022, 48, 1. | 0.8 | 2 |
| 8 | Performance analysis of relaxation Runge–Kutta methods. International Journal of High Performance Computing Applications, 2022, 36, 524-542. | 2.4 | 2 |
| 9 | A Nonlinear Elimination Preconditioned Inexact Newton Algorithm. SIAM Journal of Scientific Computing, 2022, 44, A1579-A1605. | 1.3 | 2 |
| 10 | Parallel Approximations of the Tukey g-and-h Likelihoods and Predictions for Non-Gaussian Geostatistics. , 2022, , . | | 0 |
| 11 | A Framework to Exploit Data Sparsity in Tile Low-Rank Cholesky Factorization. , 2022, , . | | 5 |
| 12 | Parallel space-time likelihood optimization for air pollution prediction on large-scale systems. , 2022, , | | 4 |
| 13 | On the robustness and performance of entropy stable collocated discontinuous Galerkin methods. Journal of Computational Physics, 2021, 426, 109891. | 1.9 | 19 |
| 14 | Simulation of Turbulent Flows Using a Fully Discrete Explicit <i>hp</i> -nonconforming Entropy Stable Solver of Any Order on Unstructured Grids. , 2021, , . | | 1 |
| 15 | Exploiting low-rank covariance structures for computing high-dimensional normal and Student-t probabilities. Statistics and Computing, 2021, 31, 1. | 0.8 | 3 |
| 16 | Approximate Error Bounds on Solutions of Nonlinearly Preconditioned PDEs. SIAM Journal of Scientific Computing, 2021, 43, A2526-A2554. | 1.3 | 3 |
| 17 | The Arab world prepares the exascale workforce. Communications of the ACM, 2021, 64, 82-87. | 3.3 | 1 |
| 18 | Sum of Kronecker products representation and its Cholesky factorization for spatial covariance matrices from large grids. Computational Statistics and Data Analysis, 2021, 157, 107165. | 0.7 | 1 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Leveraging PaRSEC Runtime Support to Tackle Challenging 3D Data-Sparse Matrix Problems. , 2021, , . | | 6 |
| 20 | Nonlinear Preconditioning Strategies for Two-Phase Flows in Porous Media Discretized by a Fully Implicit Discontinuous Galerkin Method. SIAM Journal of Scientific Computing, 2021, 43, S317-S344. | 1.3 | 10 |
| 21 | Competition on Spatial Statistics for Large Datasets. Journal of Agricultural, Biological, and Environmental Statistics, 2021, 26, 580-595. | 0.7 | 14 |
| 22 | An O(N) algorithm for computing expectation of N-dimensional truncated multi-variate normal distribution I: fundamentals. Advances in Computational Mathematics, 2021, 47, 1. | 0.8 | 1 |
| 23 | High Performance Multivariate Geospatial Statistics on Manycore Systems. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2719-2733. | 4.0 | 8 |
| 24 | Meeting the real-time challenges of ground-based telescopes using low-rank matrix computations. , 2021, , . | | 11 |
| 25 | Implications of Reduced Communication Precision in a Collocated Discontinuous Galerkin Finite Element Framework. , 2021, , . | | 0 |
| 26 | HLIBCov: Parallel hierarchical matrix approximation of large covariance matrices and likelihoods with applications in parameter identification. MethodsX, 2020, 7, 100600. | 0.7 | 9 |
| 27 | Hierarchical Matrix Approximations of Hessians Arising in Inverse Problems Governed by PDEs. SIAM Journal of Scientific Computing, 2020, 42, A3397-A3426. | 1.3 | 9 |
| 28 | A Multilayer Nonlinear Elimination Preconditioned Inexact Newton Method for Steady-State Incompressible Flow Problems in Three Dimensions. SIAM Journal of Scientific Computing, 2020, 42, B1404-B1428. | 1.3 | 8 |
| 29 | Hierarchical matrix approximations for space-fractional diffusion equations. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113191. | 3.4 | 5 |
| 30 | Abstraction Layer For Standardizing APIs of Task-Based Engines. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2482-2495. | 4.0 | 2 |
| 31 | Explicit coupling of acoustic and elastic wave propagation in finite-difference simulations. Geophysics, 2020, 85, T293-T308. | 1.4 | 5 |
| 32 | Performance study of sustained petascale direct numerical simulation on Cray XC40 systems. Concurrency Computation Practice and Experience, 2020, 32, e5725. | 1.4 | 7 |
| 33 | Solution of the 3D density-driven groundwater flow problem with uncertain porosity and permeability. GEM - International Journal on Geomathematics, 2020, 11, 1. | 0.7 | 8 |
| 34 | Fully implicit hybrid two-level domain decomposition algorithms for two-phase flows in porous media on 3D unstructured grids. Journal of Computational Physics, 2020, 409, 109312. | 1.9 | 18 |
| 35 | Solving Acoustic Boundary Integral Equations Using High Performance Tile Low-Rank LU Factorization. Lecture Notes in Computer Science, 2020, , 209-229. | 1.0 | 7 |
| 36 | Hierarchical algorithms on hierarchical architectures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190055. | 1.6 | 18 |

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|----|---|-----|-----------|
| 37 | Extreme-Scale Task-Based Cholesky Factorization Toward Climate and Weather Prediction Applications. , 2020, , . | | 24 |
| 38 | Asynchronous computations for solving the acoustic wave propagation equation. International Journal of High Performance Computing Applications, 2020, 34, 377-393. | 2.4 | 7 |
| 39 | Maximizing I/O Bandwidth for Reverse Time Migration on Heterogeneous Large-Scale Systems. Lecture Notes in Computer Science, 2020, , 263-278. | 1.0 | 5 |
| 40 | Predictive learn and apply: MAVIS application - apply. , 2020, , . | | 2 |
| 41 | A Nonlinear Elimination Preconditioned Inexact Newton Algorithm for Steady State Incompressible Flow Problems on 3D Unstructured Meshes. Lecture Notes in Computational Science and Engineering, 2020, , 441-449. | 0.1 | 0 |
| 42 | Hierarchical-block conditioning approximations for high-dimensional multivariate normal probabilities. Statistics and Computing, 2019, 29, 585-598. | 0.8 | 12 |
| 43 | Randomized GPU Algorithms for the Construction of Hierarchical Matrices from Matrix-Vector Operations. SIAM Journal of Scientific Computing, 2019, 41, C339-C366. | 1.3 | 10 |
| 44 | An explicit marching-on-in-time scheme for solving the time domain Kirchhoff integral equation. Journal of the Acoustical Society of America, 2019, 146, 2068-2079. | 0.5 | 9 |
| 45 | Extreme Scale FMM-Accelerated Boundary Integral Equation Solver for Wave Scattering. SIAM Journal of Scientific Computing, 2019, 41, C245-C268. | 1.3 | 15 |
| 46 | Batched Triangular Dense Linear Algebra Kernels for Very Small Matrix Sizes on GPUs. ACM Transactions on Mathematical Software, 2019, 45, 1-28. | 1.6 | 8 |
| 47 | Fast parallel multidimensional FFT using advanced MPI. Journal of Parallel and Distributed Computing, 2019, 128, 137-150. | 2.7 | 37 |
| 48 | Likelihood approximation with hierarchical matrices for large spatial datasets. Computational Statistics and Data Analysis, 2019, 137, 115-132. | 0.7 | 22 |
| 49 | Hierarchical Matrix Operations on GPUs. ACM Transactions on Mathematical Software, 2019, 45, 1-28. | 1.6 | 16 |
| 50 | Application of High Performance Asynchronous Acoustic Wave Equation Stencil Solver into a Land Survey. , 2019, , . | | 3 |
| 51 | Geostatistical Modeling and Prediction Using Mixed Precision Tile Cholesky Factorization. , 2019, , . | | 12 |
| 52 | Performance Analysis of Tile Low-Rank Cholesky Factorization Using PaRSEC Instrumentation Tools. , 2019, , . | | 12 |
| 53 | Mixed-Precision Tomographic Reconstructor Computations on Hardware Accelerators. , 2019, , . | | 6 |
| 54 | Efficient Simulations for Contamination of Groundwater Aquifers under Uncertainties. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900023. | 0.2 | 0 |

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|----|---|-----|-----------|
| 55 | Leveraging Task-Based Polar Decomposition Using PARSEC on Massively Parallel Systems. , 2019, , . | | 0 |
| 56 | Tucker Tensor Analysis of Matérn Functions in Spatial Statistics. Computational Methods in Applied Mathematics, 2019, 19, 101-122. | 0.4 | 9 |
| 57 | Combining finite element and finite difference methods for isotropic elastic wave simulations in an energy-conserving manner. Journal of Computational Physics, 2019, 378, 665-685. | 1.9 | 20 |
| 58 | SBP–SAT finite difference discretization of acoustic wave equations on staggered block-wise uniform grids. Journal of Computational and Applied Mathematics, 2019, 348, 421-444. | 1.1 | 22 |
| 59 | mpi4py-fft: Parallel Fast Fourier Transforms with MPI for Python. Journal of Open Source Software, 2019, 4, 1340. | 2.0 | 3 |
| 60 | A Note on Adaptive Nonlinear Preconditioning Techniques. SIAM Journal of Scientific Computing, 2018, 40, A1171-A1186. | 1.3 | 18 |
| 61 | Accelerated Cyclic Reduction: A distributed-memory fast solver for structured linear systems. Parallel Computing, 2018, 74, 65-83. | 1.3 | 5 |
| 62 | Parallel accelerated cyclic reduction preconditioner for three-dimensional elliptic PDEs with variable coefficients. Journal of Computational and Applied Mathematics, 2018, 344, 760-781. | 1.1 | 5 |
| 63 | Fast multipole preconditioners for sparse matrices arising from elliptic equations. Computing and Visualization in Science, 2018, 18, 213-229. | 1.2 | 10 |
| 64 | On long-time instabilities in staggered finite difference simulations of the seismic acoustic wave equations on discontinuous grids. Geophysical Journal International, 2018, 212, 1098-1110. | 1.0 | 4 |
| 65 | Asynchronous Task-Based Polar Decomposition on Single Node Manycore Architectures. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 312-323. | 4.0 | 10 |
| 66 | Optimizations of Unstructured Aerodynamics Computations for Many-core Architectures. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2317-2332. | 4.0 | 11 |
| 67 | Batched QR and SVD algorithms on GPUs with applications in hierarchical matrix compression. Parallel Computing, 2018, 74, 19-33. | 1.3 | 38 |
| 68 | Hierarchical Decompositions for the Computation of High-Dimensional Multivariate Normal Probabilities. Journal of Computational and Graphical Statistics, 2018, 27, 268-277. | 0.9 | 21 |
| 69 | Performance Assessment of Hybrid Parallelism for Large-Scale Reservoir Simulation on Multi- and Many-core Architectures. , 2018, , . | | 2 |
| 70 | Parallel Approximation of the Maximum Likelihood Estimation for the Prediction of Large-Scale Geostatistics Simulations. , 2018, , . | | 16 |
| 71 | ExaGeoStat: A High Performance Unified Software for Geostatistics on Manycore Systems. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2771-2784. | 4.0 | 44 |
| 72 | Real-Time Massively Distributed Multi-object Adaptive Optics Simulations for the European Extremely Large Telescope. , 2018, , . | | 7 |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 73 | Tile Low-Rank GEMM Using Batched Operations on GPUs. Lecture Notes in Computer Science, 2018, , 811-825. | 1.0 | 9 |
| 74 | Scalable soft real-time supervisor for tomographic AO. , 2018, , . | | 5 |
| 75 | Exploiting Data Sparsity for Large-Scale Matrix Computations. Lecture Notes in Computer Science, 2018, , 721-734. | 1.0 | 19 |
| 76 | A High Performance QDWH-SVD Solver Using Hardware Accelerators. ACM Transactions on Mathematical Software, 2017, 43, 1-25. | 1.6 | 13 |
| 77 | Tile Low Rank Cholesky Factorization for Climate/Weather Modeling Applications on Manycore Architectures. Lecture Notes in Computer Science, 2017, , 22-40. | 1.0 | 24 |
| 78 | Performance Evaluation of Computation and Communication Kernels of the Fast Multipole Method on Intel Manycore Architecture. Lecture Notes in Computer Science, 2017, , 553-564. | 1.0 | 5 |
| 79 | Asynchronous Task-Based Parallelization of Algebraic Multigrid. , 2017, , . | | 4 |
| 80 | A scalable community detection algorithm for large graphs using stochastic block models. Intelligent Data Analysis, 2017, 21, 1463-1485. | 0.4 | 5 |
| 81 | Multidimensional Intratile Parallelization for Memory-Starved Stencil Computations. ACM Transactions on Parallel Computing, 2017, 4, 1-32. | 1.2 | 20 |
| 82 | Communication Reducing Algorithms for Distributed Hierarchical N-Body Problems with Boundary Distributions. Lecture Notes in Computer Science, 2017, , 79-96. | 1.0 | 6 |
| 83 | Fast Multipole Method as a Matrix-Free Hierarchical Low-Rank Approximation. Lecture Notes in Computational Science and Engineering, 2017, , 267-286. | 0.1 | 3 |
| 84 | Efficient Supervision Strategy for Tomographic AO Systems on E-ELT. , 2017, , . | | 1 |
| 85 | Nonlinear Multiplicative Schwarz Preconditioning in Natural Convection Cavity Flow. Lecture Notes in Computational Science and Engineering, 2017, , 227-235. | 0.1 | 0 |
| 86 | Performance optimization of Sparse Matrixâ€Vector Multiplication for multi omponent PDEâ€based applications using GPUs. Concurrency Computation Practice and Experience, 2016, 28, 3447-3465. | 1.4 | 8 |
| 87 | Optimization of an Electromagnetics Code with Multicore Wavefront Diamond Blocking and Multi-dimensional Intra-Tile Parallelization. , 2016, , . | | 6 |
| 88 | On the Robustness and Prospects of Adaptive BDDC Methods for Finite Element Discretizations of Elliptic PDEs with High-Contrast Coefficients. , 2016, , . | | 3 |
| 89 | â"‹â€matrix techniques for approximating large covariance matrices and estimating its parameters. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 731-732. | 0.2 | 0 |
| 90 | Efficient Sphere Detector Algorithm for Massive MIMO Using CPU Hardware Accelerator. Procedia Computer Science, 2016, 80, 2169-2180. | 1.2 | 11 |

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|-----|---|-----|-----------|
| 91 | Redesigning Triangular Dense Matrix Computations on GPUs. Lecture Notes in Computer Science, 2016, , 477-489. | 1.0 | 9 |
| 92 | Convergence Analysis for the Multiplicative Schwarz Preconditioned Inexact Newton Algorithm. SIAM Journal on Numerical Analysis, 2016, 54, 3145-3166. | 1.1 | 10 |
| 93 | Accelerated Dimension-Independent Adaptive Metropolis. SIAM Journal of Scientific Computing, 2016, 38, S539-S565. | 1.3 | 10 |
| 94 | Efficiency of High Order Spectral Element Methods on Petascale Architectures. Lecture Notes in Computer Science, 2016, , 449-466. | 1.0 | 12 |
| 95 | High-Performance Modeling of Carbon Dioxide Sequestration by Coupling Reservoir Simulation and Molecular Dynamics. SPE Journal, 2016, 21, 0853-0863. | 1.7 | 6 |
| 96 | Unstructured computational aerodynamics on many integrated core architecture. Parallel Computing, 2016, 59, 97-118. | 1.3 | 9 |
| 97 | KBLAS. ACM Transactions on Mathematical Software, 2016, 42, 1-31. | 1.6 | 28 |
| 98 | A performance model for the communication in fast multipole methods on high-performance computing platforms. International Journal of High Performance Computing Applications, 2016, 30, 423-437. | 2.4 | 7 |
| 99 | High Performance Polar Decomposition on Distributed Memory Systems. Lecture Notes in Computer Science, 2016, , 605-616. | 1.0 | 3 |
| 100 | Multicore-Optimized Wavefront Diamond Blocking for Optimizing Stencil Updates. SIAM Journal of Scientific Computing, 2015, 37, C439-C464. | 1.3 | 57 |
| 101 | High Performance Multi-GPU SpMV for Multi-component PDE-Based Applications. Lecture Notes in Computer Science, 2015, , 601-612. | 1.0 | 8 |
| 102 | A parallel domain decomposition-based implicit method for the Cahn–Hilliard–Cook phase-field equation in 3D. Journal of Computational Physics, 2015, 285, 55-70. | 1.9 | 12 |
| 103 | Field-Split Preconditioned Inexact Newton Algorithms. SIAM Journal of Scientific Computing, 2015, 37, A1388-A1409. | 1.3 | 55 |
| 104 | Exploring Shared-Memory Optimizations for an Unstructured Mesh CFD Application on Modern Parallel Systems. , 2015, , . | | 10 |
| 105 | Composing Algorithmic Skeletons to Express High-Performance Scientific Applications. , 2015, , . | | 15 |
| 106 | Smooth and robust solutions for Dirichlet boundary control of fluid–solid conjugate heat transfer problems. Journal of Computational Physics, 2015, 281, 759-786. | 1.9 | 11 |
| 107 | Pipelining Computational Stages of the Tomographic Reconstructor for Multi-Object Adaptive Optics on a Multi-GPU System. , 2014, , . | | 10 |
| 108 | NKS Method for the Implicit Solution of a Coupled Allen-Cahn/Cahn-Hilliard System. Lecture Notes in Computational Science and Engineering, 2014, , 819-827. | 0.1 | 2 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Multiphysics simulations. International Journal of High Performance Computing Applications, 2013, 27, 4-83. | 2.4 | 244 |
| 110 | Application of PDSLin to the magnetic reconnection problem. Computational Science & Discovery, 2013, 6, 014002. | 1.5 | 1 |
| 111 | Optimizing the performance of streaming numerical kernels on the IBM Blue Gene/P PowerPC 450 processor. International Journal of High Performance Computing Applications, 2013, 27, 193-209. | 2.4 | 4 |
| 112 | Large-scale parameter extraction in electrocardiology models through Born approximation. Inverse Problems, 2013, 29, 015001. | 1.0 | 1 |
| 113 | Fully Implicit Two-phase Reservoir Simulation with the Additive Schwarz Preconditioned Inexact Newton Method. , 2013, , . | | 8 |
| 114 | Systematic Approach in Optimizing Numerical Memory-Bound Kernels on GPU. Lecture Notes in Computer Science, 2013, , 207-216. | 1.0 | 7 |
| 115 | Topic 14+16: High-Performance and Scientific Applications and Extreme-Scale Computing. Lecture Notes in Computer Science, 2013, , 737-738. | 1.0 | 0 |
| 116 | Multiplicative Algorithms for Constrained Non-negative Matrix Factorization. , 2012, , . | | 3 |
| 117 | Numerical simulation of four-field extended magnetohydrodynamics in dynamically adaptive curvilinear coordinates via Newton–Krylov—Schwarz. Journal of Computational Physics, 2012, 231, 5822-5853. | 1.9 | 4 |
| 118 | The International Exascale Software Project roadmap. International Journal of High Performance Computing Applications, 2011, 25, 3-60. | 2.4 | 495 |
| 119 | Moving grids for magnetic reconnection via Newton–Krylov methods. Computer Physics Communications, 2011, 182, 173-176. | 3.0 | 4 |
| 120 | Exaflop/s: The why and the how. Comptes Rendus - Mecanique, 2011, 339, 70-77. | 2.1 | 26 |
| 121 | Hybrid Programming Model for Implicit PDE Simulations on Multicore Architectures. Lecture Notes in Computer Science, 2011, , 12-21. | 1.0 | 6 |
| 122 | Hierarchical Programming Models for Exascale Computingâ \in "Potential and Challenges. , 2010, , . | | 0 |
| 123 | PDE-based Parameter Reconstruction through Schur and Schwarz Decompositions. Lecture Notes in Computational Science and Engineering, 2008, , 543-550. | 0.1 | 1 |
| 124 | Scalable solver software. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1026401-1026402. | 0.2 | 0 |
| 125 | Reconstructing parameters of the FitzHugh–Nagumo system from boundary potential measurements. Journal of Computational Neuroscience, 2007, 23, 251-264. | 0.6 | 21 |
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Parallel Implicit Solution of Diffusion-limited Radiation Transport. , 2007, , 579-586.

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| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Pseudotransient Continuation and Differential-Algebraic Equations. SIAM Journal of Scientific Computing, 2003, 25, 553-569. | 1.3 | 85 |
| 128 | Nonlinearly Preconditioned Inexact Newton Algorithms. SIAM Journal of Scientific Computing, 2002, 24, 183-200. | 1.3 | 161 |
| 129 | Non-linear additive Schwarz preconditioners and application in computational fluid dynamics. International Journal for Numerical Methods in Fluids, 2002, 40, 1463-1470. | 0.9 | 55 |
| 130 | High-performance parallel implicit CFD. Parallel Computing, 2001, 27, 337-362. | 1.3 | 137 |
| 131 | Globalized Newton-Krylov-Schwarz Algorithms and Software for Parallel Implicit CFD. International Journal of High Performance Computing Applications, 2000, 14, 102-136. | 2.4 | 58 |
| 132 | Four Horizons for Enhancing the Performance of Parallel Simulations Based on Partial Differential Equations. Lecture Notes in Computer Science, 2000, , 1-17. | 1.0 | 7 |
| 133 | Trends in Algorithms for Nonuniform Applications on Hierarchical Distributed Architectures. , 2000, , 103-137. | | 2 |
| 134 | Prospects for CFD on Petaflops Systems. The IMA Volumes in Mathematics and Its Applications, 2000, , 247-277. | 0.5 | 9 |
| 135 | A comparison of PETSc library and HPF implementations of an archetypal PDS computation. Advances in Engineering Software, 1998, 29, 415-423. | 1.8 | 4 |
| 136 | Convergence Analysis of Pseudo-Transient Continuation. SIAM Journal on Numerical Analysis, 1998, 35, 508-523. | 1.1 | 218 |
| 137 | Parallel Newton–KrylovSchwarz Algorithms for the Transonic Full Potential Equation. SIAM Journal of Scientific Computing, 1998, 19, 246-265. | 1.3 | 112 |
| 138 | PROSPECTS FOR CFD ON PETAFLOPS SYSTEMS. , 1998, , 1079-1096. | | 6 |
| 139 | Aerodynamic applications of Newton- Krylov-Schwarz solvers. , 1995, , 1-20. | | 25 |
| 140 | A comparison of some domain decomposition and ILU preconditioned iterative methods for nonsymmetric elliptic problems. Numerical Linear Algebra With Applications, 1994, 1, 477-504. | 0.9 | 31 |
| 141 | Towards Polyalgorithmic Linear System Solvers for Nonlinear Elliptic Problems. SIAM Journal of Scientific Computing, 1994, 15, 681-703. | 1.3 | 57 |
| 142 | Domain Decomposition with Local Mesh Refinement. SIAM Journal on Scientific and Statistical Computing, 1992, 13, 967-993. | 1.5 | 22 |
| 143 | Parallel Performance of Domain-Decomposed Preconditioned Krylov Methods for PDEswith Locally Uniform Refinement. SIAM Journal on Scientific and Statistical Computing, 1992, 13, 128-145. | 1.5 | 9 |
| 144 | Convergence rate estimate for a domain decomposition method. Numerische Mathematik, 1992, 61, 153-169. | 0.9 | 12 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Domain decomposition methods in computational fluid dynamics. International Journal for Numerical Methods in Fluids, 1992, 14, 147-165. | 0.9 | 24 |
| 146 | Domain decomposition techniques for the parallel solution of nonsymmetric systems of elliptic boundary value problems. Applied Numerical Mathematics, 1990, 6, 281-301. | 1.2 | 3 |
| 147 | Domain decomposition methods for the parallel computation of reacting flows. Computer Physics Communications, 1989, 53, 181-200. | 3.0 | 25 |
| 148 | Domain decomposition on parallel computers. IMPACT of Computing in Science and Engineering, 1989, 1, 421-439. | 0.8 | 25 |
| 149 | Complexity of Parallel Implementation of Domain Decomposition Techniques for Elliptic Partial Differential Equations. SIAM Journal on Scientific and Statistical Computing, 1988, 9, 312-326. | 1.5 | 38 |
| 150 | A Comparison of Domain Decomposition Techniques for Elliptic Partial Differential Equations and their Parallel Implementation. SIAM Journal on Scientific and Statistical Computing, 1987, 8, s166-s202. | 1.5 | 157 |