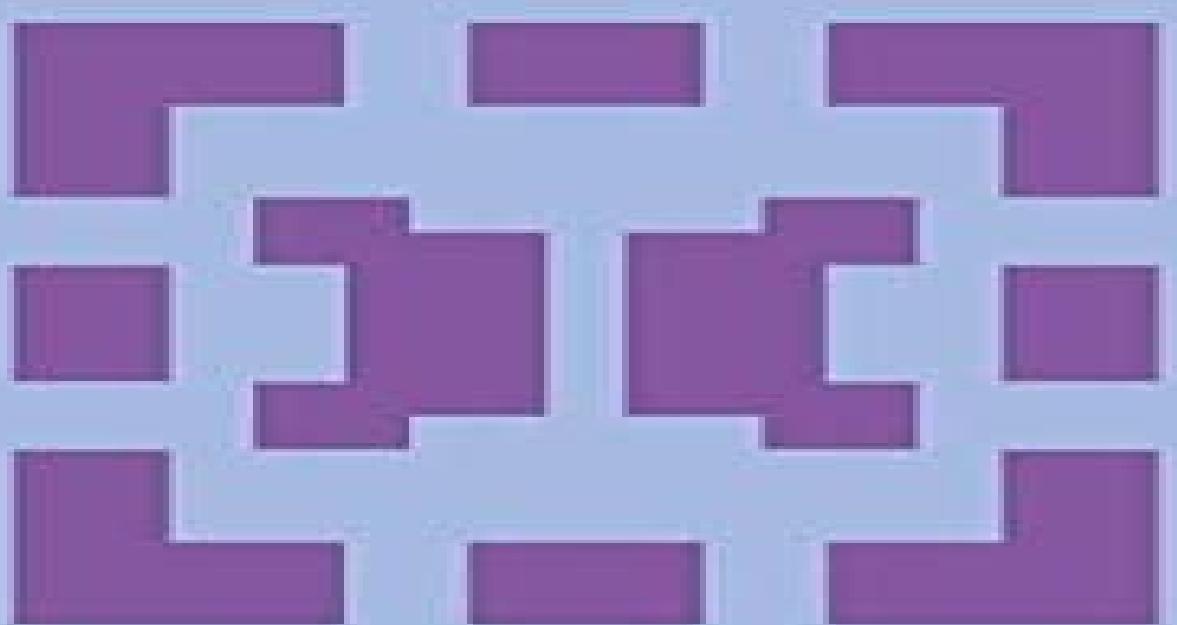


Mathematics and Its Applications

Marián Vajteršic

# Algorithms for Elliptic Problems

Efficient Sequential and Parallel Solvers



# Some Efficient Sequential And Parallel Elliptic Solvers

**Marián Vajtersic**

## Some Efficient Sequential And Parallel Elliptic Solvers:

Algorithms for Elliptic Problems Marián Vajtersic, 2013-03-09 This volume deals with problems of modern effective algorithms for the numerical solution of the most frequently occurring elliptic partial differential equations. From the point of view of implementation attention is paid to algorithms for both classical sequential and parallel computer systems. The first two chapters are devoted to fast algorithms for solving the Poisson and biharmonic equation. In the third chapter parallel algorithms for model parallel computer systems of the SIMD and MIMD types are described. The implementation aspects of parallel algorithms for solving model elliptic boundary value problems are outlined for systems with matrix pipeline and multiprocessor parallel computer architectures. A modern and popular multigrid computational principle which offers a good opportunity for a parallel realization is described in the next chapter. More parallel variants based in this idea are presented whereby methods and assignments strategies for hypercube systems are treated in more detail. The last chapter presents VLSI designs for solving special tridiagonal linear systems of equations arising from finite difference approximations of elliptic problems. For researchers interested in the development and application of fast algorithms for solving elliptic partial differential equations using advanced computer systems.

Proceedings of the Eighth International Colloquium on Differential Equations Dimităr Bainov, 1998 The Eighth International Colloquium on Differential Equations was organized by the Institute for Basic Science of Inha University, the International Federation of Nonlinear Analysts, the Mathematical Society of Japan, Pharmaceutical Faculty of the Medical University of Sofia, University of Catania and UNESCO with the cooperation of a number of international mathematical organizations and was held at the Technical University of Plovdiv August 18-23, 1997.

*Forthcoming Books* Rose Arny, 1992

## An Efficient Parallel Multigrid Solver for 3-D

**Convection-dominated Problems** Ignacio M. Llorente, 2000 Multigrid algorithms are known to be highly efficient in solving systems of elliptic equations. However standard multi grid algorithms fail to achieve optimal grid independent convergence rates in solving non elliptic problems. In many practical cases the non elliptic part of a problem is represented by the convection operator. Downstream marching when it is viable is the simplest and most efficient way to solve this operator. However in a parallel setting the sequential nature of marching degrades the efficiency of the algorithm. The aim of this report is to present, evaluate and analyze an alternative highly parallel multi grid method for 3-D convection dominated problems. This method employs semi coarsening, a four color plane implicit smoother and discretization rules allowing the same cross characteristic interactions on all the grids involved to be maintained. The resulting multigrid solver exhibits a fast grid independent convergence rate for solving the convection diffusion operator on cell centered grids with stretching. The load imbalance below the critical level is the main source of inefficiency in its parallel implementation. A hybrid smoother that degrades the convergence properties of the method but improves its granularity has been found to be the best choice in a parallel setting. The numerical and parallel properties of the multi grid algorithm with the four color and hybrid smoothers

are studied on SGI Origin 2000 and Cray T3E systems Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing David H. Bailey, 1995-01-01 Proceedings Parallel Computing Mathematical Reviews, 2005 **Parallel Performance of Some Multigrid Solvers for Three-dimensional Parabolic Equations** Michael Holst, Faisal Saied, University of Illinois at Urbana-Champaign. Department of Computer Science, 1991 We examine the effect of the step size on the convergence rates of multigrid and present results of experiments on two parallel architectures a four processor Cray Y MP and a fourteen processor Alliant FX 2800 Our results demonstrate that multigrid can achieve very high parallel efficiency on coarse grained shared memory machines and that explicit methods are not likely to be competitive with multigrid based implicit methods on such machines Scientific and Technical Aerospace Reports, 1992 **SIAM Journal on Scientific Computing**, 2006 Kybernetika, 2001 Parallelism in Matrix Computations Efstratios Gallopoulos, Bernard Philippe, Ahmed H. Sameh, 2015-07-25 This book is primarily intended as a research monograph that could also be used in graduate courses for the design of parallel algorithms in matrix computations It assumes general but not extensive knowledge of numerical linear algebra parallel architectures and parallel programming paradigms The book consists of four parts I Basics II Dense and Special Matrix Computations III Sparse Matrix Computations and IV Matrix functions and characteristics Part I deals with parallel programming paradigms and fundamental kernels including reordering schemes for sparse matrices Part II is devoted to dense matrix computations such as parallel algorithms for solving linear systems linear least squares the symmetric algebraic eigenvalue problem and the singular value decomposition It also deals with the development of parallel algorithms for special linear systems such as banded Vandermonde Toeplitz and block Toeplitz systems Part III addresses sparse matrix computations a the development of parallel iterative linear system solvers with emphasis on scalable preconditioners b parallel schemes for obtaining a few of the extreme eigenpairs or those contained in a given interval in the spectrum of a standard or generalized symmetric eigenvalue problem and c parallel methods for computing a few of the extreme singular triplets Part IV focuses on the development of parallel algorithms for matrix functions and special characteristics such as the matrix pseudospectrum and the determinant The book also reviews the theoretical and practical background necessary when designing these algorithms and includes an extensive bibliography that will be useful to researchers and students alike The book brings together many existing algorithms for the fundamental matrix computations that have a proven track record of efficient implementation in terms of data locality and data transfer on state of the art systems as well as several algorithms that are presented for the first time focusing on the opportunities for parallelism and algorithm robustness **Conference Proceedings**, 1989 **Scientific Computing in Object-oriented Parallel Environments**, 1997 Aspects of Computation on Asynchronous Parallel Processors Margaret H. Wright, 1989 The increasing availability of asynchronous parallel processors has provided opportunities for original and useful work in scientific computing However the field of parallel computing is still in a highly volatile state and researchers display a wide

range of opinion about many fundamental questions such as models of parallelism approaches for detecting and analyzing parallelism of algorithms and tools that allow software developers and users to make effective use of diverse forms of complex hardware. This volume collects the work of researchers specializing in different aspects of parallel computing who met to discuss the framework and the mechanics of numerical computing. The far reaching impact of high performance asynchronous systems is reflected in the wide variety of topics which include scientific applications e.g. linear algebra, lattice gauge simulation, ordinary and partial differential equations, models of parallelism, parallel language features, task scheduling, automatic parallelization techniques, tools for algorithm development in parallel environments and system design issues.

*Computational Fluid Dynamics* Wolfgang Gentzsch, K. W. Neves, 1988 Cost effective vectorization of fluid dynamic codes in particular the Navier Stokes Code is covered relative to the supercomputer architecture. Subjects include current supercomputer architecture, minisupercomputers, impact of hardware on computing, software migration issues, benchmarking guidelines on Fortran vectorization at the do loop level, restructuring of basic linear algebra algorithms and restructuring guidelines for basic fluid dynamic codes. A glossary of supercomputing terms is given in the Appendix. Keywords: Matrices, Mathematics, Navier Stokes equations, Algorithms, Supercomputers, Nato furnished Vector programming, Benchmarking, Mini supercomputers, JHD.

**Large-Scale Scientific Computing** Ivan Lirkov, 2004-02-18 This book constitutes the thoroughly refereed post proceedings of the 4th International Conference on Large Scale Scientific Computations LSSC 2003 held in Sozopol, Bulgaria in June 2003. The 50 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on preconditioning techniques, Monte Carlo methods and quasi Monte Carlo methods, set value of numerics and reliable computing, environmental modeling and large scale computations for engineering problems.

**Advances in Computer Methods for Partial Differential Equations-V** Robert Vichnevetsky, Robert S. Stepleman, 1984

Supercomputing '89, 1989

**Energy Research Abstracts**, 1990

Fourth International Conference on Supercomputing and Third World Supercomputer Exhibition, 1989

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