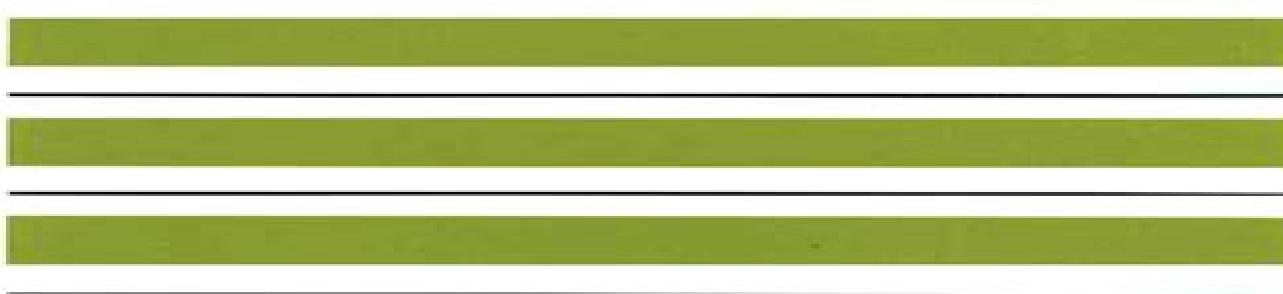

Matrix Computations on Systolic-Type Arrays

**Jaime H. Moreno
Tomás Lang**



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Systolic Computations

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Systolic Computations M.A. Frumkin, 2012-12-06 This monograph is devoted to a new method of parallel computing which uses VLSI technology in an efficient manner. By this method data are fed to the cells of a systolic processor and results are obtained instantly. Some theoretical and algorithmic questions which arise in the design of hardware and software for systolic processing are considered. Special attention is devoted to the complexity of VLSI complexity of algorithms parallel algorithms relations between graphs of algorithms and graphs of processors parallel programming languages and the use of systolic algorithms for vector programming. The book is unique for its inclusion of a library of systolic algorithms for solving problems from twelve branches of computer science and will be useful for designers of hardware and software for parallel processing.

Concurrent Computations Stuart K. Tewksbury, Bradley Dickinson, Stuart C. Schwartz, 2012-12-06 The 1987 Princeton Workshop on Algorithm Architecture and Technology Issues for Models of Concurrent Computation was organized as an interdisciplinary work shop emphasizing current research directions toward concurrent computing systems. With participants from several different fields of specialization the workshop covered a wide variety of topics though by no means a complete cross section of issues in this rapidly moving field. The papers included in this book were prepared for the workshop and taken together provide a view of the broad range of issues and alternative directions being explored. To organize the various papers the book has been divided into five parts. Part I considers new technology directions. Part II emphasizes underlying theoretical issues. Communication issues which are addressed in the majority of papers are specifically highlighted in Part III. Part IV includes papers stressing the fault tolerance and reliability of systems. Finally Part V includes systems oriented papers where the system ranges from VLSI circuits through powerful parallel computers. Much of the initial planning of the workshop was completed through an informal AT T Bell Laboratories group consisting of Mehdi Hatamian, Vijay Kumar, Adri aan Ligtenberg, Sailesh Rao, P Subrahmanyam and myself. We are grateful to Stuart Schwartz both for the support of Princeton University and for his organizing local arrangements for the workshop and to the members of the organizing committee whose recommendations for participants and discussion topics were particularly helpful.

A Rosenberg and A T Transputing '91 Peter Welch, Toshiyasu L. Kunii, A. Bakkers, 1991 Transputers constitute a revolutionary category of microprocessors for parallel processing which have become market leaders in 32 bit RISC architectures. The wide range of applications has caused a multitude of activities of user groups in all major countries as well as regional activities on four continents. For the first time the collaboration of all these user groups has led to the organization of a world conference Transputing '91. Parallel Computing and Transputers D. Arnold, 1994 The broadening of interest in parallel computing and transputers is reflected in this text. Topics covered include concurrent programming, graphics and image processing and robotics and control. It is based on the proceedings of the 6th Australian Transputer and Occam User Group.

Advances and Trends in Structures and Dynamics Ahmed K. Noor, Robert J. Hayduk, 2013-10-22 Advances and

Trends in Structures and Dynamics contains papers presented at the symposium on Advances and Trends in Structures and Dynamics held in Washington D C on October 22 25 1984 Separating 67 papers of the symposium as chapters this book documents some of the major advances in the structures and dynamics discipline The chapters are further organized into 13 parts The first three parts explore the trends and advances in engineering software and hardware numerical analysis and parallel algorithms and finite element technology Subsequent parts show computational strategies for nonlinear and fracture mechanics problems mechanics of materials and structural theories structural and dynamic stability multidisciplinary and interaction problems composite materials and structures and optimization Other chapters focus on random motion and dynamic response tire modeling and contact problems damping and control of spacecraft structures and advanced structural applications Parallel Computations and Their Impact on Mechanics American Society of Mechanical Engineers. Winter Annual Meeting,1987

1985 International Symposium on VLSI Technology, Systems, and Applications ,1985

TENCON '93 ,1993 **Area-efficient VLSI Computation** Charles Eric Leiserson,1983 **Supercomputers and Parallel Computation** D. J. Paddon,1984 *Large Scale Scientific Computation* Seymour V. Parter,University of Wisconsin--Madison. Mathematics Research Center,1984 *Mathematical Foundations of Computer Science 1984* Michal Chytil,M.P. Chytil,V. Koubek,1984-08 *Mathematical Foundations of Computer Science ,1984* Bit-level Systolic Arrays Anthony John De Groot,1989 *Advances in Computational Mathematics* Tetsuro Yamamoto,1992 This is a book edition of the symposium proceedings previously published in the Journal of Computational and Applied Mathematics Twenty one invited and 11 contributed talks given by such authors as E L Allgower O Axelesson C Brezinski H W Engl C W Gear J W Jerome D K Kahaner and B N Parlett are included Contributions cover a wide variety of current topics in computational mathematics including numerical linear algebra nonlinear equations and optimization numerical approximation and integration ill posed problems numerical solutions of ordinary and partial differential equations numerical solution of algebraic equations and computation with validation Performance Prediction for Mapped Parallel Programs Bernd Heinrich Stramm,1993 **VLSI and Modern Signal Processing** Sun Yuan Kung,Harper J. Whitehouse,1985 **Sonar**

Signal Processing Richard O. Nielsen,1991 This discussion of sonar signal processing bridges a number of related fields including acoustic propagation in the medium detection and estimation theory filter theory digital filtering sensor array processing spectral analysis fast transforms and digital signal processing The book begins with a discussion of the topics of analogue signalling conditioning digital filtering and the calculation of the discrete Fourier transform Other topics discussed include analogue filters and analogue to digital conversion finite impulse and infinite impulse response digital filters and multirate processing techniques Real-time Signal Processing ,1989 **Real Time Signal Processing XI** J. P. Letellier,1989

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