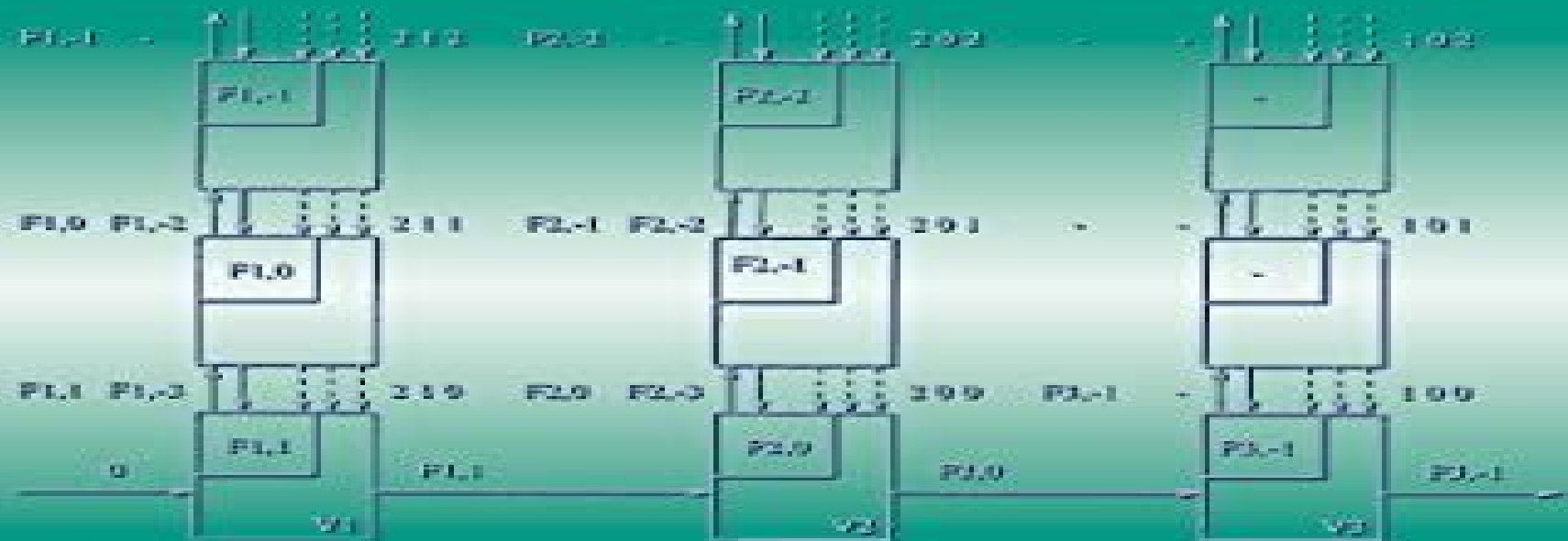# PARALLEL ALGORITHMS FOR KNAPSACK TYPE PROBLEMS



## V N Alexandrov & G M Megson

World Scientific

# Parallel Algorithms For Knapsack Type Problems

**Hai Jin,Daniel Reed,Wenbin Jiang**

**Parallel Algorithms For Knapsack Type Problems:**

    **Parallel Algorithms for Knapsack Type Problems** Vassil Alexandrov,G. M. Megson,1999 This book brings together current research direction in the mapping of dynamic programming recurrence equations for Knapsack Type problems which include Unbounded Knapsack Problem 0 1 Knapsack Problem Subset Sum Problem Change Making Problem onto so called regular parallel architectures In particular it focuses on heuristic and more formal techniques for mapping The text is based on substantially revised papers published by the authors and their colleagues in the literature but re written to provide an overall view of the subject area **Network and Parallel Computing** Hai Jin,Daniel Reed,Wenbin Jiang,2005-11-24 These proceedings contain the papers presented at the 2005 IFIP International Conference on Network and Parallel Computing NPC 2005 held in Beijing China between November 30 and December 3 2005 The goal of the conference was to establish an international forum for engineers and scientists to present their ideas and experiences in network and parallel computing A total of 320 submissions were received in response to our Call for Papers These papers were from the following countries or regions Australia Canada China France Germany Hong Kong India Iran Italy Japan Korea Lux burg Nepal Netherlands Taiwan United Arab Emirates and United States Each submission was sent to at least three reviewers Each paper was judged cording to its originality innovation readability and relevance to the expected audience Basedonthereviewsreceived atotalof68paperswereretainedfor clusionin theproceedings Among the 68 papers 48 wereacceptedasfull papers for presentation at the conference We also accepted 20 papers as short papers for a possible brief presentation at the conference followed by discussion during a poster session Thus only 21% of the total submissions could be included in the nal program **Innovative Applications Of Information Technology For The Developing World - Proceedings Of The 3rd Asian Applied Computing Conference (Aacc 2005)** Hirendra Man Pradhan,Sudha Jha,Lalit M Patnaik,Asoke K Talukder,Deepak Bhattarai,S Sitharama Iyenger,2007-07-02 Information and communication technology ICT has become a generic and indispensable tool for addressing and solving problems in such diverse areas as management social and health services transportation security and education As the cost of equipment drops dramatically it also becomes widely accessible in the developing countries However problems of high costs for adequate training of personnel access to state to the art software and the consultancies needed to facilitate access to ICT can constitute highly dissuasive factors in the dissemination of ICT in developing countries This volume describes a series of successful initiatives for the insertion of ICT in developing economies It also identifies significant problems that are likely to be encountered and suggests useful solutions to these problems It therefore serves as a useful tool for example applications and for the successful assimilation of these technologies in developing societies and countries a Operations Research Jay E. Aronson,Stanley Zionts,2008-12-30 This volume honors Gerald L Thompson featuring writings from major figures in operations research It covers Thompson s career linear and nonlinear optimization network and integer programming and applications oriented research in manufacturing It s

a valuable resource for scholars in operations research and management science **Proceedings on 1992 International Conference on Parallel Processing** Quentin F. Stout,1992-08-28 **Advances in Parallel Algorithms** Lydia Kronsjö,1992 Mathematics of Computing Parallelism Sequential and Parallel Algorithms for Physical Design Jong Chang Lee,1987 **Proceedings of International Computer Symposium** ,1986 *Parallel and Distributed Computing, Applications and Technologies* Pingzhi Fan,Hong Shen,2003 Issues for 2012 to be cataloged as a serial in LC **Parallel Algorithms for Knapsack Problems** Lily Cheng,1990 **Proceedings** ,1984 Analysis and Design of Parallel Algorithms S. Lakshmivarahan,Sudarshan Kumar Dhall,1990 **Mathematical Reviews** ,2001 **Algorithms and Parallel VLSI Architectures II** Patrice Quinton,Yves Robert,1992 Since the emergence of VLSI the relationship between the development of parallel algorithms and the design of special purpose architecture has always been of major concern The analysis of this relationship is the main topic of this book Hardware and software issues closely depend upon one another and cannot be solved independently Beyond the natural complexity of algorithm design the designer has to face that of choosing the appropriate technology medium for its efficient realization The dramatic developments in VLSI technology now offers extraordinary opportunities for implementing complex applications As application specific systems can offer 100 to 1000 fold improvements in cost performance over general purpose computers on applications they are attracting increasing attention in both academic and industrial communities Highly specialized application specific arrays of processors which are the targeted architectures in this book are extremely appealing The papers in this volume give a thorough overview on current research in the areas of parallel algorithms synthesis methods VLSI architectures and design tools Annual ACM Symposium on Parallel Algorithms and Architectures ,2004 *Proceedings of the Fifth Euromicro Workshop on Parallel and Distributed Processing* ,1997 INFOR. ,1994 **Proceedings of the 1986 International Conference on Parallel Processing** ,1986 Supercomputing 88: Technology assessment, industrial supercomputer outlooks, European supercomputing accomplishments, and performance & computations ,1988 Integer Programming and Related Areas Rabe Randow,Universität Bonn. Institut für Ökonometrie und Operations Research,1990

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