A. Ferreira   J. Rolim
Y. Saad   T. Yang (Eds.)

Parallel Algorithms for Irregularly Structured Problems

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Parallel Algorithms For Irregularly Structured Problems

Alok Aggarwal

Parallel Algorithms For Irregularly Structured Problems:

   Parallel Algorithms for Irregularly Structured Problems Afonso Ferreira,1996-07-30 This book constitutes the refereed proceedings of the Third International Workshop on Parallel Algorithms for Irregularly Structured Problems IRREGULAR 96 held in Santa Barbara California in August 1996 The volume presents 28 revised full papers selected from 51 submissions also included are one full invited paper by Torben Hagerup and abstracts of four other invited talks The papers are organized in topical sections on sparse matrix problems partitioning and domain composition irregular applications communication and synchronization systems support and mapping and load balancing   **Parallel Algorithms for Irregularly Structured Problems** Afonso Ferreira,José Rolim,2014-01-15   **Parallel Algorithms for Irregular Problems: State of the Art** Alfonso Ferreira,José Rolim,2013-04-17 Efficient parallel solutions have been found to many problems Some of them can be obtained automatically from sequential programs using compilers However there is a large class of problems irregular problems that lack efficient solutions IRREGULAR 94 a workshop and summer school organized in Geneva addressed the problems associated with the derivation of efficient solutions to irregular problems This book which is based on the workshop draws on the contributions of outstanding scientists to present the state of the art in irregular problems covering aspects ranging from scientific computing discrete optimization and automatic extraction of parallelism Audience This first book on parallel algorithms for irregular problems is of interest to advanced graduate students and researchers in parallel computer science   **Solving Irregularly Structured Problems in Parallel** Gianfranco Bilardi,1997-06-04 This book constitutes the refereed proceedings of the 4th International Symposium on Solving Irregularly Structured Problems in Parallel IRREGULAR 97 held in Paderborn Germany in June 1997 The 18 revised full papers presented were carefully selected by the program committee for inclusion in the volume also included are full papers by the five invited speakers Among the topics covered are discrete algorithms randomized methods and approximation algorithms implementations programming environments systems and applications and scheduling and load balancing   **Parallel Algorithms for Irregularly Structured Problems** Afonso Ferreira,José D. P. Rolim,1995-08-25 Proceedings Parallel Computing   Encyclopedia of Optimization Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling   **Nonlinear Assignment Problems** Panos M. Pardalos,L.S. Pitsoulis,2013-03-09 Nonlinear Assignment Problems NAPs are natural extensions of the classic Linear Assignment Problem and despite the efforts of many researchers over the past three decades they still remain some of

the hardest combinatorial optimization problems to solve exactly The purpose of this book is to provide in a single volume major algorithmic aspects and applications of NAPs as contributed by leading international experts The chapters included in this book are concerned with major applications and the latest algorithmic solution approaches for NAPs Approximation algorithms polyhedral methods semidefinite programming approaches and heuristic procedures for NAPs are included while applications of this problem class in the areas of multiple target tracking in the context of military surveillance systems of experimental high energy physics and of parallel processing are presented Audience Researchers and graduate students in the areas of combinatorial optimization mathematical programming operations research physics and computer science

   Handbook of Metaheuristics Fred W. Glover,Gary A. Kochenberger,2006-04-11 Metaheuristics in their original definition are solution methods that orchestrate an interaction between local improvement procedures and higher level strategies to create a process capable of escaping from local optima and performing a robust search of a solution space Over time these methods have also come to include any procedures that employ strategies for overcoming the trap of local optimality in complex solution spaces especially those procedures that utilize one or more neighborhood structures as a means of defining admissible moves to transition from one solution to another or to build or destroy solutions in constructive and destructive processes The degree to which neighborhoods are exploited varies according to the type of procedure In the case of certain population based procedures such as genetic al rithms neighborhoods are implicitly and somewhat restrictively defined by reference to replacing components of one solution with those of another by variously chosen rules of exchange popularly given the name of crossover In other population based methods based on the notion of path relinking neighborhood structures are used in their full generality including constructive and destructive neighborhoods as well as those for transitioning between complete solutions Certain hybrids of classical evoluti ary approaches which link them with local search also use neighborhood structures more fully though apart from the combination process itself **Automata, Languages and Programming** Pierpaolo Degano,1997-06-18 This book constitutes the refereed proceedings of the 24th International Colloquium on Automata Languages and Programming ICALP 97 held in Bologna Italy in July 1997 ICALP 97 celebrated the 25th anniversary of the European Association for Theoretical Computer Science EATCS which has sponsored the ICALP meetings since 1972 The volume presents 73 revised full papers selected from a total of 197 submissions Also included are six invited contributions ICALP is one of the few flagship conferences in the area The book addresses all current topics in theoretical computer science **Satisfiability Problem: Theory and Applications** Dingzhu Du,Jun Gu,Panos M. Pardalos,NSF Science and Technology Center in Discrete Mathematics and Theoretical Computer Science,1997 The satisfiability SAT problem is central in mathematical logic computing theory and many industrial applications There has been a strong relationship between the theory the algorithms and the applications of the SAT problem This book aims to bring together work by the best theorists algorithmists and practitioners working on the sat problem and on industrial applications

as well as to enhance the interaction between the three research groups The book features the applications of theoretical algorithmic results to practical problems and presents practical examples for theoretical algorithmic study Major topics covered in the book include practical and industial SAT problems and benchmarks significant case studies and applications of the SAT problem and SAT algorithms new algorithms and improved techniques for satisfiability testing specific data structures and implementation details of the SAT algorithms and the theoretical study of the SAT problem and SAT algorithms   *Fleet Management and Logistics* Teodor G. Crainic,Gilbert Laporte,2012-12-06 TEODOR GABRIEL CRAINIC DIRECTOR The Centre for Research on Transportation C R T was founded in 1971 by the Universite de Montreal From 1988 on it is jointly managed by the Universite de Montreal and its affiliated schools the Ecole des Hautes Etudes Commerciales and Ecole Poly technique Professors students and researchers from many institutions in the Montreal area join forces at the C R T to analyze transportation logistics and telecommunication systems from a multidisciplinary perspective The C R T pursues three major complementary objectives training of high level specialists the advancement of knowledge and technology the transfer of technology towards industry and the public sector Its main field of expertise is the develop ment of quantitative and computer based models and methods for the analysis of urban regional and intercity transportation networks as well as telecommunication systems This applies to the study of passenger and commodity flows as well as to the socioeconomic aspects of transportation policy regulation economics The twenty fifth anniversary of the C R T offered the opportunity to evaluate past accomplishments and to identify future trends and challenges Five colloquia were thus organized on major research and application themes that also reflected our main research areas They gathered together internationally renowned researchers who linked recent scientific and technological advances to modeling and methodological challenges waiting to be tackled particularly concerning new problems and applica tions and the increasingly widespread use of new technologies   **Algorithms and Computation** Alok Aggarwal,1999-12 This book constitutes the refereed proceedings of the 10th International Symposium on Algorithms and Computation ISAAC 99 held in Chennai India in December 1999 The 40 revised full papers presented together with four invited contributions were carefully reviewed and selected from 71 submissions Among the topics covered are data structures parallel and distributed computing approximation algorithms computational intelligence online algorithms complexity theory graph algorithms computational geometry and algorithms in practice   **Algorithms and Computations** Alok Aggarwal,C. Pandu Rangan,2003-06-26 This book constitutes the refereed proceedings of the 10th International Symposium on Algorithms and Computation ISAAC 99 held in Chennai India in December 1999 The 40 revised full papers presented together with four invited contributions were carefully reviewed and selected from 71 submissions Among the topics covered are data structures parallel and distributed computing approximation algorithms computational intelligence online algorithms complexity theory graph algorithms computational geometry and algorithms in practice   **Optimization Techniques for Solving Complex Problems**

Enrique Alba,Christian Blum,Pedro Asasi,Coromoto Leon,Juan Antonio Gomez,2009-02-17 Real world problems and modern optimization techniques to solve them Here a team of international experts brings together core ideas for solving complex problems in optimization across a wide variety of real world settings including computer science engineering transportation telecommunications and bioinformatics Part One covers methodologies for complex problem solving including genetic programming neural networks genetic algorithms hybrid evolutionary algorithms and more Part Two delves into applications including DNA sequencing and reconstruction location of antennae in telecommunication networks metaheuristics FPGAs problems arising in telecommunication networks image processing time series prediction and more All chapters contain examples that illustrate the applications themselves as well as the actual performance of the algorithms Optimization Techniques for Solving Complex Problems is a valuable resource for practitioners and researchers who work with optimization in real world settings   Structured Adaptive Mesh Refinement (SAMR) Grid Methods Scott B. Baden,Nikos P. Chrisochoides,Dennis B. Gannon,Michael L. Norman,2012-12-06 Structured adaptive mesh refinement SAMR methods have matured over the past 20 years and are now the method of choice for certain difficult problems such as compressible flow SAMR presents difficult technical challenges both in terms of the numerical techniques involved and the complexity of the programming effort especially on parallel computers In order to gain insight into managing these difficulties much research effort has been directed at mesh generation parallel computation and improvements in accuracy aimed primarily at refinement interfaces A major stumbling block in this endeavor is that many of these techniques entail substantial amounts of problem specific detail Standardization is highly unlikely except within narrowly defined problem domains The papers presented in this collection are based on talks given at the Workshop on Structured Adaptive Mesh Refinement Grid Methods held at the Institute for Mathematics and its Applications University of Minnesota on March 12 13 1997 They describe research to improve the general understanding of the application of SAMR to practical problems identify issues critical to efficient and effective implementation on high performance computers stimulate the development of a community code repository for software including benchmarks to assist in the evaluation of software and compiler technologies The ten chapters of this volume have been divided into two parts reflecting two major issues in the topic I programming complexity of SAMR algorithms and II applicability and numerical challenges of SAMR methods Part I presents three programming environments and two libraries that address the concerns of efficient execution and reduced software development times of SAMR applications Part II describes an overview of applications that can benefit from SAMR methods ranging from crack propagation and industrial boilers to   *Advanced Computational Methods for Knowledge Engineering* Ngoc Thanh Nguyen,Tien van Do,Hoai An Thi,2013-03-22 The book consists of 29 extended chapters which have been selected and invited from the submissions to the 1st International Conference on Computer Science Applied Mathematics and Applications ICCSAMA 2013 held on 9 10 May 2013 in Warsaw Poland The book is organized into five parts which are Advanced

Optimization Methods and Their Applications Queuing Theory and Applications Computational Methods for Knowledge Engineering Knowledge Engineering with Cloud and Grid Computing and Logic Based Methods for Decision Making and Data Mining respectively All chapters in the book discuss theoretical and practical issues connected with computational methods and optimization methods for knowledge engineering **Grid Generation and Adaptive Algorithms** Marshall W. Bern,Joseph E. Flaherty,Mitchell Luskin,2012-12-06 This IMA Volume in Mathematics and its Applications GRID GENERATION AND ADAPTIVE ALGORITHMS is based on the proceedings of a workshop with the same title The work shop was an integral part of the 1996 97 IMA program on MATHEMAT ICS IN HIGH PERFORMANCE COMPUTING I would like to thank Marshall Bern Xerox Palo Alto Research Cen ter Joseph E Flaherty Department of Computer Science Rensselaer Polytechnic Institute and Mitchell Luskin School of Mathematics Uni versity of Minnesota for their excellent work as organizers of the meeting and for editing the proceedings I also take this opportunity to thank the National Science Founda tion NSF Department of Energy DOE and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr Professor and Director v PREFACE Scientific and engineering computation has become so complex that traditional numerical computation on uniform meshes is generally not pos sible or too expensive Mesh generation must reflect both the domain geometry and the expected solution characteristics Meshes should fur thermore be related to the solution through computable estimates of dis cretization errors This suggests an automatic and adaptive process where an initial mesh is enriched with the goal of computing a solution with prescribed accuracy specifications in an optimal manner While automatic mesh generation procedures and adaptive strategies are becoming available major computational challenges remain Three dimensional mesh genera tion is still far from automatic *Search Methodologies* Edmund K. Burke,Graham Kendall,2013-10-18 The first edition of Search Methodologies Introductory Tutorials in Optimization and Decision Support Techniques was originally put together to offer a basic introduction to the various search and optimization techniques that students might need to use during their research and this new edition continues this tradition Search Methodologies has been expanded and brought completely up to date including new chapters covering scatter search GRASP and very large neighborhood search The chapter authors are drawn from across Computer Science and Operations Research and include some of the world s leading authorities in their field The book provides useful guidelines for implementing the methods and frameworks described and offers valuable tutorials to students and researchers in the field As I embarked on the pleasant journey of reading through the chapters of this book I became convinced that this is one of the best sources of introductory material on the search methodologies topic to be found The book s subtitle Introductory Tutorials in Optimization and Decision Support Techniques aptly describes its aim and the editors and contributors to this volume have achieved this aim with remarkable success The chapters in this book are exemplary in giving useful guidelines for implementing the methods and frameworks described Fred Glover Leeds School of Business University of Colorado Boulder USA The book aims to

present a series of well written tutorials by the leading experts in their fields Moreover it does this by covering practically the whole possible range of topics in the discipline It enables students and practitioners to study and appreciate the beauty and the power of some of the computational search techniques that are able to effectively navigate through search spaces that are sometimes inconceivably large I am convinced that this second edition will build on the success of the first edition and that it will prove to be just as popular Jacek Blazewicz Institute of Computing Science Poznan University of Technology and Institute of Bioorganic Chemistry Polish Academy of Sciences **Optimization and Decision Science: Methodologies and Applications** Antonio Sforza,Claudio Sterle,2017-11-03 This proceedings volume highlights the state of the art knowledge related to optimization decisions science and problem solving methods as well as their application in industrial and territorial systems It includes contributions tackling these themes using models and methods based on continuous and discrete optimization network optimization simulation and system dynamics heuristics metaheuristics artificial intelligence analytics and also multiple criteria decision making The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity There has also been increasing research interest in Big Data and related challenges These challenges can be recognized in many fields and systems which have a significant impact on our way of living design management and control of industrial production of goods and services transportation planning and traffic management in urban and regional areas energy production and exploitation natural resources and environment protection homeland security and critical infrastructure protection development of advanced information and communication technologies The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications The chapter topics are applicable for researchers and practitioners working in these areas but also for the operations research community The contributions were presented during the international conference Optimization and Decision Science ODS2017 held at Hilton Sorrento Palace Conference Center Sorrento Italy September 4 7 2017 ODS 2017 was organized by AIRO Italian Operations Research Society in cooperation with DIETI Department of Electrical Engineering and Information Technology of University Federico II of Naples The Vehicle Routing Problem: Latest Advances and New Challenges Bruce L. Golden,S. Raghavan,Edward A. Wasil,2008-07-20 Theoretical research and practical applications in the eld of vehicle routing started in 1959 with the truck dispatching problem posed by Dantzig and Ramser 1 nd the optimum routing of a eet of gasoline delivery trucks between a bulk terminal and a large number of service stations supplied by the terminal Using a method based on a linear programming formulation their hand calculations produced a near optimal solution with four routes to aproblemwithtwelve service stations The authorsproclaimed Nopractical applications of the method have been made as yet In the nearly 50 years since the Dantzig and Ramser paper appeared work in the eld has exploded dramatically Today a Google Scholar search of the words vehicle routing problem VRP yields more than 21 700

entries The June 2006 issue of OR MS Today provided a survey of 17 vendors of commercial routing software whose packages are currently capable of solving average size problems with 1 000 stops 50 routes and two hour hard time windows in two to ten minutes 2 In practice vehicle routing may be the single biggest success story in operations research For example each day 103 500 drivers at UPS follow computer generated routes The drivers visit 7 9 million customers and handle an average of 15 6 million packages 3

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