

PARALLEL ALGORITHMS FOR IRREGULAR PROBLEMS: STATE OF THE ART

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Parallel Algorithms For Irregular Problems

Yong Dou, Ralf Gruber, Josef Joller



Parallel Algorithms For Irregular Problems:

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. **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 D. P. Rolim, 1995-08-25 Proceedings, Parallel Computing. Experimental and Efficient Algorithms Sotiris Nikolettseas, 2005-04-28 This book constitutes the refereed proceedings of the 4th International Workshop on Experimental and Efficient Algorithms, WEA 2005, held in Santorini Island, Greece, in May 2005. The 47 revised full papers and 7 revised short papers presented together with extended abstracts of 3 invited talks were carefully reviewed and selected from 176 submissions. The book is devoted to the design, analysis, implementation, experimental evaluation, and engineering of efficient algorithms. Among the application areas addressed are most fields applying advanced algorithmic techniques such as combinatorial optimization, approximation, graph theory, discrete mathematics, scheduling, searching, sorting, string matching, coding, networking, data mining, data analysis, etc. *Mathematical Foundations of Computer Science 1998* Lubos Brim, Jiri Zlatuska, Josef Gruska, 1998-08-12 This book constitutes the refereed proceedings of the 23rd International Symposium on the Mathematical Foundations of Computer Science, MFCS 98, held in Brno, Czech Republic, in August 1998. The 71 revised full papers presented were carefully reviewed and selected from a total of 168 submissions. Also included are 11 full invited surveys by prominent leaders in the area. The papers are organized in topical sections on problem complexity, logic semantics, and automata, rewriting automata and transducers, typing, concurrency semantics, and logic circuit complexity, programming structural complexity, formal languages, graphs, Turing complexity, and logic binary decision diagrams, etc. **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

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 algorithms 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 evolutionary approaches which link them with local search also use neighborhood structures more fully though apart from the combination process itself

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 industrial 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

Advanced Parallel Processing Technologies Yong Dou, Ralf Gruber, Josef Joller, 2009-08-21 This volume contains the papers presented at the 8 International Conference on Advanced Parallel Processing Technologies APPT 2009 This series of conferences originated from collaborations between

researchers from China and Germany and has evolved into an international conference for reporting advances in parallel processing technologies APPT 2009 addressed the entire gamut of related topics ranging from the architectural aspects of parallel computer hardware and system software to the applied technologies for novel applications For this conference we received over 76 full submissions from researchers all over the world All the papers were peer reviewed in depth and qualitatively graded on their relevance originality significance presentation and the overall appropriateness for their acceptance Any concerns raised were discussed by the Program Committee The Organizing Committee did an excellent job in selecting 36 papers for presentation In short the papers included here represent the forefront of research from China Switzerland Germany and other countries

Progress in Computer Research Frank H. Columbus, 2001 Contains 17 papers written by an international group of academic and industrial specialists in computer science Some of the topics addressed include the design and implementation of video servers in video on demand systems a framework for the development of globally convergent adaptive learning rate algorithms a vector based approach to analysis of file space properties load balancing for unstructured mesh applications musical composition based on genetic algorithms and fuzzy transformations of traditional Greek music patterns and frequency adaptive join for shared nothing machines Most papers consist of an abstract key words an introduction discussion conclusions suggestions for future research and references Several contributions are printed in a rather dark compacted font that is difficult to read c Book News Inc

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

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 development 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 applications and the increasingly widespread use of new technologies

High Performance Computing - HiPC 2004 Luc Bougé,Viktor K.

Prasanna,2004-12-06 Annotation This book constitutes the refereed proceedings of the 11th International Conference on High Performance Computing HiPC 2004 held in Bangalore India in December 2004 The 48 revised full papers presented were carefully reviewed and selected from 253 submissions The papers are organized in topical sections on wireless network management compilers and runtime systems high performance scientific applications peer to peer and storage systems high performance processors and routers grids and storage systems energy aware and high performance networking and distributed algorithms

Flexibility and Robustness in Scheduling Jean-Charles Billaut,Aziz Moukrim,Eric

Sanlaville,2013-03-01 Scheduling is a broad research area and scheduling problems arise from several application domains production systems logistic computer science etc Solving scheduling problems requires tools of combinatorial optimization exact or approximated algorithms Flexibility is at the frontier between predictive deterministic approaches and reactive or on line approaches The purpose of flexibility is to provide one or more solutions adapted to the context of the application in order to provide the ideal solution This book focuses on the integration of flexibility and robustness considerations in the study of scheduling problems After considering both flexibility and robustness it then covers various scheduling problems treated with an emphasis on flexibility or robustness or both

Optimization by GRASP Mauricio G.C. Resende,Celso C.

Ribeiro,2016-10-26 This is the first book to cover GRASP Greedy Randomized Adaptive Search Procedures a metaheuristic that has enjoyed wide success in practice with a broad range of applications to real world combinatorial optimization problems The state of the art coverage and carefully crafted pedagogical style lends this book highly accessible as an introductory text not only to GRASP but also to combinatorial optimization greedy algorithms local search and path relinking as well as to heuristics and metaheuristics in general The focus is on algorithmic and computational aspects of applied optimization with GRASP with emphasis given to the end user providing sufficient information on the broad spectrum of advances in applied optimization with GRASP For the more advanced reader chapters on hybridization with path relinking and parallel and continuous GRASP present these topics in a clear and concise fashion Additionally the book offers a very complete annotated bibliography of GRASP and combinatorial optimization For the practitioner who needs to solve combinatorial optimization problems the book provides a chapter with four case studies and implementable templates for all algorithms covered in the text This book with its excellent overview of GRASP will appeal to researchers and practitioners of combinatorial optimization who have a need to find optimal or near optimal solutions to hard combinatorial optimization

problems **Handbook of Combinatorial Optimization** Ding-Zhu Du, Panos M. Pardalos, 2013-12-01 Combinatorial or discrete optimization is one of the most active fields in the interface of operations research computer science and applied mathematics Combinatorial optimization problems arise in various applications including communications network design VLSI design machine vision air line crew scheduling corporate planning computer aided design and manufacturing database query design cellular telephone frequency assignment constraint directed reasoning and computational biology Furthermore combinatorial optimization problems occur in many diverse areas such as linear and integer programming graph theory artificial intelligence and number theory All these problems when formulated mathematically as the minimization or maximization of a certain function defined on some domain have a commonality of discreteness Historically combinatorial optimization starts with linear programming Linear programming has an entire range of important applications including production planning and distribution personnel assignment finance allocation of economic resources circuit simulation and control systems Leonid Kantorovich and Tjalling Koopmans received the Nobel Prize 1975 for their work on the optimal allocation of resources Two important discoveries the ellipsoid method 1979 and interior point approaches 1984 both provide polynomial time algorithms for linear programming These algorithms have had a profound effect in combinatorial optimization Many polynomial time solvable combinatorial optimization problems are special cases of linear programming e.g. matching and maximum flow In addition linear programming relaxations are often the basis for many approximation algorithms for solving NP hard problems e.g. dualheuristics **Essays and Surveys in Metaheuristics** Celso C. Ribeiro, Pierre Hansen, 2012-12-06 Finding exact solutions to many combinatorial optimization problems in business engineering and science still poses a real challenge despite the impact of recent advances in mathematical programming and computer technology New fields of applications such as computational biology electronic commerce and supply chain management bring new challenges and needs for algorithms and optimization techniques Metaheuristics are master procedures that guide and modify the operations of subordinate heuristics to produce improved approximate solutions to hard optimization problems with respect to more simple algorithms They also provide fast and robust tools producing high quality solutions in reasonable computation times The field of metaheuristics has been fast evolving in recent years Techniques such as simulated annealing tabu search genetic algorithms scatter search greedy randomized adaptive search variable neighborhood search ant systems and their hybrids are currently among the most efficient and robust optimization strategies to find high quality solutions to many real life optimization problems A very large number of successful applications of metaheuristics are reported in the literature and spread throughout many books journals and conference proceedings A series of international conferences entirely devoted to the theory applications and computational developments in metaheuristics has been attracting an increasing number of participants from universities and the industry

Computer Aided Verification Werner Damm, Holger Hermanns, 2007-08-30 This book constitutes the refereed proceedings

of the 19th International Conference on Computer Aided Verification Thirty three state of the technology papers are presented together with fourteen tool papers three invited papers and four invited tutorials All the current issues in computer aided verification and model checking from foundational and methodological issues to the evaluation of major tools and systems are addressed *Handbook of combinatorial optimization* Dingzhu Du, Panos M. Pardalos, 1998-12-15

Combinatorial or discrete optimization is one of the most active fields in the interface of operations research computer science and applied mathematics Combinatorial optimization problems arise in various applications including communications network design VLSI design machine vision air line crew scheduling corporate planning computer aided design and manufacturing database query design cellular telephone frequency assignment constraint directed reasoning and computational biology Furthermore combinatorial optimization problems occur in many diverse areas such as linear and integer programming graph theory artificial intelligence and number theory All these problems when formulated mathematically as the minimization or maximization of a certain function defined on some domain have a commonality of discreteness Historically combinatorial optimization starts with linear programming Linear programming has an entire range of important applications including production planning and distribution personnel assignment finance allocation of economic resources circuit simulation and control systems Leonid Kantorovich and Tjalling Koopmans received the Nobel Prize 1975 for their work on the optimal allocation of resources Two important discoveries the ellipsoid method 1979 and interior point approaches 1984 both provide polynomial time algorithms for linear programming These algorithms have had a profound effect in combinatorial optimization Many polynomial time solvable combinatorial optimization problems are special cases of linear programming e g matching and maximum flow In addition linear programming relaxations are often the basis for many approximation algorithms for solving NP hard problems e g dual heuristics

High Performance Computing - HiPC'99 Prith Banerjee, Viktor K. Prasanna, Bhabani P. Sinha, 2004-06-01 These are the proceedings of the Sixth International Conference on High Performance Computing HiPC 99 held December 17-20 in Calcutta India The meeting serves as a forum for presenting current work by researchers from around the world as well as highlighting activities in Asia in the high performance computing area The meeting emphasizes both the design and the analysis of high performance computing systems and their scientific engineering and commercial applications Topics covered in the meeting series include Parallel Algorithms Scientific Computation Parallel Architectures Visualization Parallel Languages Compilers Network and Cluster Based Computing Distributed Systems Signal Image Processing Systems Programming Environments Supercomputing Applications Memory Systems Internet and WWW based Computing Multimedia and High Speed Networks Scalable Servers We would like to thank Alfred Hofmann and Ruth Abraham of Springer Verlag for their excellent support in bringing out the proceedings The detailed messages from the steering committee chair general co chair and program chair pay tribute to numerous volunteers who helped us in organizing the meeting October 1999 Viktor K Prasanna Bhabani Sinha

Prithviraj Banerjee Message from the Steering Chair It is my pleasure to welcome you to the Sixth International Conference on High Performance Computing I hope you enjoy the meeting the rich cultural heritage of Calcutta as well as the mother Ganges the river of life

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