

Youssef Hamadi

Combinatorial Search: From Algorithms to Systems

 Springer

Combinatorial Search From Algorithms To Systems

Pankaj Mehra, Benjamin W Wah



Combinatorial Search From Algorithms To Systems:

Combinatorial Search: From Algorithms to Systems Youssef Hamadi, 2013-10-29 Although they are believed to be unsolvable in general tractability results suggest that some practical NP hard problems can be efficiently solved Combinatorial search algorithms are designed to efficiently explore the usually large solution space of these instances by reducing the search space to feasible regions and using heuristics to efficiently explore these regions Various mathematical formalisms may be used to express and tackle combinatorial problems among them the constraint satisfaction problem CSP and the propositional satisfiability problem SAT These algorithms or constraint solvers apply search space reduction through inference techniques use activity based heuristics to guide exploration diversify the searches through frequent restarts and often learn from their mistakes In this book the author focuses on knowledge sharing in combinatorial search the capacity to generate and exploit meaningful information such as redundant constraints heuristic hints and performance measures during search which can dramatically improve the performance of a constraint solver Information can be shared between multiple constraint solvers simultaneously working on the same instance or information can help achieve good performance while solving a large set of related instances In the first case information sharing has to be performed at the expense of the underlying search effort since a solver has to stop its main effort to prepare and communicate the information to other solvers on the other hand not sharing information can incur a cost for the whole system with solvers potentially exploring unfeasible spaces discovered by other solvers In the second case sharing performance measures can be done with little overhead and the goal is to be able to tune a constraint solver in relation to the characteristics of a new instance this corresponds to the selection of the most suitable algorithm for solving a given instance The book is suitable for researchers practitioners and graduate students working in the areas of optimization search constraints and computational complexity

Algorithms for Sensor Systems Antonio Fernández Anta, Tomasz Jurdzinski, Miguel A. Mosteiro, Yanyong Zhang, 2017-12-30 This book constitutes revised selected papers from the 13th International Symposium on Algorithms and Experiments for Wireless Sensor Networks ALGOSENSORS 2017 held in Vienna in September 2017 The 17 full papers presented in this volume were carefully reviewed and selected from 30 submissions ALGOSENSORS is an international symposium dedicated to the algorithmic aspects of wireless networks Originally focused on sensor networks it now covers algorithmic issues arising in wireless networks of all types of computational entities static or mobile including sensor networks sensor actuator networks autonomous robots The focus is on the design and analysis of algorithms models of computation and experimental analysis *Into a Deeper Understanding of Evolutionary Computing: Exploration, Exploitation, and Parameter Control* Abdul Hanif Abdul Halim, Swagatam Das, Idris Ismail, 2025-01-17 This book delves into fundamental and advanced strategies for enhancing evolutionary and metaheuristic algorithms focusing on the crucial balance between exploration and exploitation in search mechanisms As technological advancements increase optimization

complexity effectively managing this balance becomes essential for achieving optimal solutions within reasonable computational resources The book's distinctive structure organizes content according to optimization stages and processes offering a comprehensive discussion of various approaches supported by extensive literature The authors note a scarcity of literature addressing the trade offs between exploration and exploitation with contemporary references making this work particularly valuable It aims to deepen the reader's understanding of evolutionary computing emphasizing exploration exploitation and parameter control It is relevant not only to algorithm developers and the evolutionary computation community but also to students and researchers across scientific disciplines The book is designed to be accessible to those without extensive algorithm development backgrounds providing theoretical and practical insights into optimization methods

The Sixth International Symposium on Neural Networks (ISNN 2009) Hongwei Wang, Yi Shen, Tingwen Huang, Zhigang Zeng, 2009-05-03 This volume of Advances in Soft Computing and Lecture Notes in Computer Science vols 5551 5552 and 5553 constitute the Proceedings of the 6 International Symposium of Neural Networks ISNN 2009 held in Wuhan China during May 26-29 2009 ISNN is a prestigious annual symposium on neural networks with past events held in Dalian 2004 Chongqing 2005 Chengdu 2006 Nanjing 2007 and Beijing 2008 Over the past few years ISNN has matured into a well established series of international conference on neural networks and their applications to other fields Following this tradition ISNN 2009 provided an academic forum for the participants to disseminate their new research findings and discuss emerging areas of research Also it created a stimulating environment for the participants to interact and exchange information on future research challenges and opportunities of neural networks and their applications ISNN 2009 received 1235 submissions from about 2459 authors in 29 countries and regions Australia Brazil Canada China Democratic People's Republic of Korea Finland Germany Hong Kong Hungary India Islamic Republic of Iran Japan Jordan Macao Malaysia Mexico Norway Qatar Republic of Korea Singapore Spain Taiwan Thailand Tunisia United Kingdom United States Venezuela Vietnam and Yemen across six continents Asia Europe North America South America Africa and Oceania Based on rigorous reviews by the Program Committee members and reviewers 95 high quality papers were selected to be published in this volume

Control and Dynamic Systems V41: Analysis and Control System Techniques for Electric Power Systems Part 1 of 4 C.T. Leonides, 2012-12-02 Analysis and Control System Techniques for Electric Power Systems Part 1 is the first volume of a four volume sequence in this series devoted to the significant theme of Analysis and Control Techniques for Electric Power Systems The broad topics involved include transmission line and transformer modeling Since the issues in these two fields are rather well in hand although advances continue to be made this four volume sequence will focus on advances in areas including power flow analysis economic operation of power systems generator modeling power system stability voltage and power control techniques and system protection among others This book comprises seven chapters with the first focusing on modern approaches to modeling and control of electric power systems Succeeding chapters then discuss dynamic state

estimation techniques for large scale electric power systems optimal power flow algorithms sparsity in large scale network computation techniques for decentralized control for interconnected systems knowledge based systems for power system security assessment and neural networks and their application to power engineering This book will be of interest to practitioners in the fields of electrical and computer engineering Load Balancing: An Automated Learning Approach Pankaj Mehra, Benjamin W Wah, 1995-04-26 This book presents a system that learns new load indices and tunes the parameters of given migration policies The key component is a dynamic workload generator that allows off line measurement of task completion times under a wide variety of precisely controlled loading conditions The workload data collected are used for training comparator neural networks a novel architecture for learning to compare functions of time series and for generating a load index to be used by the load balancing strategy Finally the load index traces generated by the comparator networks are used in a population based learning system for tuning the parameters of a given load balancing policy Together the system constitutes an automated strategy learning system for performance driven improvement of existing load balancing software **Artificial Intelligence in Control and Decision-making Systems** Yuriy P. Kondratenko, Vladik Kreinovich, Witold Pedrycz, Arkadii Chikrii, Anna M. Gil-Lafuente, 2023-04-17 This book presents an authoritative collection of contributions reporting on computational intelligence fuzzy systems as well as artificial intelligence techniques for modeling optimization control and decision making together with applications and case studies in engineering management and economic sciences Dedicated to the Academician of the Polish Academy of Sciences Professor Janusz Kacprzyk in recognition of his pioneering work the book reports on theories methods and new challenges in artificial intelligence thus offering not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike The book consists of the 18 chapters presented by distinguished and experienced authors from 16 different countries Australia Brazil Canada Chile Germany Hungary Israel Italy China R N Macedonia Saudi Arabia Spain Turkey United States Ukraine and Vietnam All chapters are grouped into three parts Computational Intelligence and Fuzzy Systems Artificial Intelligence Techniques in Modelling and Optimization and Computational Intelligence in Control and Decision Support Processes The book reflects recent developments and new directions in artificial intelligence including computation method of the interval hull to solutions of interval and fuzzy interval linear systems fuzzy Petri networks in supervisory control of Markov processes in robotic systems fuzzy approaches for linguistic data summaries first approximation analysis for choosing fuzzy or neural systems and type 1 or type 2 fuzzy sets matrix resolving functions in game dynamic problems evolving stacking neuro fuzzy probabilistic networks and their combined learning in online pattern recognition tasks structural optimization of fuzzy control and decision making systems neural and granular fuzzy adaptive modeling state and action abstraction for search and reinforcement learning algorithms Among the most successful and perspective implementations in practical areas of human activity are tentative algorithms for neurological disorders human centric question answering system OWA operators in

pensions evaluation of the perception of public safety through fuzzy and multi criteria approach a multicriteria hierarchical approach to investment location choice intelligent traffic signal control and generative adversarial networks in cybersecurity

Data Mining and Constraint Programming Christian Bessiere, Luc De Raedt, Lars Kotthoff, Siegfried Nijssen, Barry O'Sullivan, Dino Pedreschi, 2016-12-01 A successful integration of constraint programming and data mining has the potential to lead to a new ICT paradigm with far reaching implications It could change the face of data mining and machine learning as well as constraint programming technology It would not only allow one to use data mining techniques in constraint programming to identify and update constraints and optimization criteria but also to employ constraints and criteria in data mining and machine learning in order to discover models compatible with prior knowledge This book reports on some key results obtained on this integrated and cross disciplinary approach within the European FP7 FET Open project no 284715 on Inductive Constraint Programming and a number of associated workshops and Dagstuhl seminars The book is structured in five parts background learning to model learning to solve constraint programming for data mining and showcases

Distributed Algorithms Jean-Claude Bermond, 1989-09-06 This book includes the papers presented at the Third International Workshop on Distributed Algorithms organized at La Colle sur Loup near Nice France September 26 28 1989 which followed the first two successful international workshops in Ottawa 1985 and Amsterdam 1987 This workshop provided a forum for researchers and others interested in distributed algorithms on communication networks graphs and decentralized systems The aim was to present recent research results explore directions for future research and identify common fundamental techniques that serve as building blocks in many distributed algorithms Papers describe original results in all areas of distributed algorithms and their applications including distributed combinatorial algorithms distributed graph algorithms distributed algorithms for control and communication distributed database techniques distributed algorithms for decentralized systems fail safe and fault tolerant distributed algorithms distributed optimization algorithms routing algorithms design of network protocols algorithms for transaction management composition of distributed algorithms and analysis of distributed algorithms

Intelligent Systems for Engineering Ram D. Sriram, 2012-12-06 When men of knowledge impart this knowledge I do not mean they will convince your reason I mean they will awaken in you the faith that it is so Sri Krishna Bhagavadgita BACKGROUND The use of computers has led to significant productivity increases in the engineering industry Most of the computer aided engineering applications were restricted to algorithmic computations such as finite element programs and circuit analysis programs However a number of problems encountered in engineering are not amenable to purely algorithmic solutions These problems are often ill structured the term ill structured problems is used here to denote problems that do not have a clearly defined algorithmic solution An experienced engineer deals with these ill structured problems using his/her judgment and experience The knowledge based systems KBS technology which emerged out of research in artificial intelligence AI offers a methodology to solve these ill structured engineering problems The

emergence of the KBS technology can be viewed as the knowledge revolution other important events that led to increased productivity are the industrial revolution 17th century the invention of the transistor and associated developments first half of the 20th century and the world wide web towards the end of the 20th century Kurzweil in a lecture at MIT on December 3 1987 linked the progress of automation to two industrial revolutions the first industrial revolution leveraged our physical capabilities whereas the second industrial revolution the knowledge revolution is expected leverage our mental capabilities

Combinatorial Search From Algorithms To Systems Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Combinatorial Search From Algorithms To Systems**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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Combinatorial Search From Algorithms To Systems Introduction

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