

Yuri Malitsky

# Instance- Specific Algorithm Configuration

# Instance Specific Algorithm Configuration

**Michal Rosen-Zvi**



## **Instance Specific Algorithm Configuration:**

**Instance-Specific Algorithm Configuration** Yuri Malitsky, 2014-11-20 This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm for the instance at hand The author presents the basic model behind ISAC and then details a number of modifications and practical applications In particular he addresses automated feature generation offline algorithm configuration for portfolio generation algorithm selection adaptive solvers online tuning and parallelization The author's related thesis was honorably mentioned runner up for the ACP Dissertation Award in 2014 and this book includes some expanded sections and notes on recent developments Additionally the techniques described in this book have been successfully applied to a number of solvers competing in the SAT and MaxSAT International Competitions winning a total of 18 gold medals between 2011 and 2014 The book will be of interest to researchers and practitioners in artificial intelligence in particular in the area of machine learning and constraint programming

**Learning and Intelligent Optimization** Giuseppe Nicosia, Panos Pardalos, 2013-11-26 This book constitutes the proceedings of the 7th International Conference on Learning and Optimization LION 7 which was held in Catania Italy in January 2013 The 49 contributions presented in this volume were carefully reviewed and selected from 101 submissions They explore the intersections and uncharted territories between machine learning artificial intelligence mathematical programming and algorithms for hard optimization problems

Learning and Intelligent Optimization Roberto Battiti, Mauro Brunato, Ilias Kotsireas, Panos M. Pardalos, 2018-12-31 This book constitutes the thoroughly refereed post conference proceedings of the 12th International Conference on Learning and Intelligent Optimization LION 12 held in Kalamata Greece in June 2018 The 28 full papers and 12 short papers presented have been carefully reviewed and selected from 62 submissions The papers explore the advanced research developments in such interconnected fields as mathematical programming global optimization machine learning and artificial intelligence Special focus is given to advanced ideas technologies methods and applications in optimization and machine learning

*Smart Delivery Systems* Jakub Nalepa, 2019-11-15 Smart Delivery Systems Solving Complex Vehicle Routing Problems examines both exact and approximate methods for delivering optimal solutions to rich vehicle routing problems showing both the advantages and disadvantages of each approach It shows how to apply machine learning and advanced data analysis techniques to improve routing systems familiarizing readers with the concepts and technologies used in successfully implemented delivery systems The book explains both the latest theoretical and practical advances in intelligent delivery and scheduling systems and presents practical applications for designing new algorithms for real life scenarios Emphasizes both sequential and parallel algorithms Uniquely combines methods and algorithms real life applications and parallel computing Includes recommendations on how to choose between different methods for solving applications Provides learning aids end of chapter references bibliography worked examples and exercises

*Integration of AI and OR Techniques in Constraint Programming for Combinatorial*

*Optimization Problems* Carla Gomes,Meinolf Sellmann,2013-04-11 This volume is a compilation of the research program of the 10th International Conference on the Integration of Artificial Intelligence AI and Operations Research OR Techniques in Constraint Programming CPAIOR 2013 held at Yorktown Heights NY USA in May 2013 This volume contains 20 full papers and 11 short papers that were carefully reviewed and selected from 71 submissions The papers focus on new techniques or applications in the intersection of constraint programming CP artificial intelligence AI and operations research OR

*Principles and Practice of Constraint Programming* Michel Rueher,2016-08-22 This book constitutes the refereed conference proceedings of the 22nd International Conference on Principles and Practice of Constraint Programming CP 2016 held in Toulouse France in September 2016 The 63 revised regular papers presented together with 4 short papers and the abstracts of 4 invited talks were carefully reviewed and selected from 157 submissions The scope of CP 2016 includes all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning The papers are grouped into the following tracks technical track application track computational sustainability track CP and biology track music track preference social choice and optimization track testing and verification track and journal first and sister conferences track **Modeling,**

**Simulation and Optimization for Science and Technology** William Fitzgibbon,Yuri A. Kuznetsov,Pekka Neittaanmäki,Olivier Pironneau,2014-06-18 This volume contains thirteen articles on advances in applied mathematics and computing methods for engineering problems Six papers are on optimization methods and algorithms with emphasis on problems with multiple criteria four articles are on numerical methods for applied problems modeled with nonlinear PDEs two contributions are on abstract estimates for error analysis finally one paper deals with rare events in the context of uncertainty quantification Applications include aerospace glaciology and nonlinear elasticity Herein is a selection of contributions from speakers at two conferences on applied mathematics held in June 2012 at the University of Jyväskylä Finland The first conference Optimization and PDEs with Industrial Applications celebrated the seventieth birthday of Professor Jacques P. Riaux of the University of Jyväskylä and Polytechnic University of Catalonia Barcelona Tech and the second conference Optimization and PDEs with Applications celebrated the seventy fifth birthday of Professor Roland Glowinski of the University of Houston This work should be of interest to researchers and practitioners as well as advanced students or engineers in computational and applied mathematics or mechanics **Pattern Recognition** Karina Mariela Figueroa

Mora,Juan Anzures Marín,Jaime Cerda,Jesús Ariel Carrasco-Ochoa,José Francisco Martínez-Trinidad,José Arturo Olvera-López,2020-06-17 This book constitutes the proceedings of the 12th Mexican Conference on Pattern Recognition MCPR 2020 which was due to be held in Morelia Mexico in June 2020 The conference was held virtually due to the COVID 19 pandemic The 31 papers presented in this volume were carefully reviewed and selected from 67 submissions They were organized in the following topical sections pattern recognition techniques image processing and analysis computer vision

industrial and medical applications of pattern recognition natural language processing and recognition artificial intelligence techniques and recognition

**Computation and Big Data for Transport** Pedro Diez, Pekka Neittaanmäki, Jacques Periaux, Tero Tuovinen, Jordi Pons-Prats, 2020-02-28 This book gathers the outcomes of the second ECCOMAS CM3 Conference series on transport which addressed the main challenges and opportunities that computation and big data represent for transport and mobility in the automotive logistics aeronautics and marine maritime fields Through a series of plenary lectures and mini forums with lectures followed by question and answer sessions the conference explored potential solutions and innovations to improve transport and mobility in surface and air applications The book seeks to answer the question of how computational research in transport can provide innovative solutions to Green Transportation challenges identified in the ambitious Horizon 2020 program In particular the respective papers present the state of the art in transport modeling simulation and optimization in the fields of maritime aeronautics automotive and logistics research In addition the content includes two white papers on transport challenges and prospects Given its scope the book will be of interest to students researchers engineers and practitioners whose work involves the implementation of Intelligent Transport Systems ITS software for the optimal use of roads including safety and security traffic and travel data surface and air traffic management and freight logistics

**ECAI 2020** G. De Giacomo, A. Catala, B. Dilkina, 2020-09-11 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology

**Learning and Intelligent Optimization** Clarisse Dhaenens, Laetitia Jourdan, Marie-Eléonore Marmion, 2015-06-18 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Conference on Learning and Optimization LION 9 which was held in Lille France in January 2015 The 31 contributions

presented were carefully reviewed and selected for inclusion in this book. The papers address all fields between machine learning, artificial intelligence, mathematical programming, and algorithms for hard optimization problems. Special focus is given to algorithm selection and configuration, learning fitness landscape applications, dynamic optimization, multi-objective max clique problems, bayesian optimization, and global optimization, data mining, and in a special session also on dynamic optimization.

*Intelligent Computer Mathematics* Fairouz Kamareddine, Claudio Sacerdoti Coen, 2021-07-20. This book constitutes the refereed proceedings of the 14th International Conference on Intelligent Computer Mathematics CICM 2021 held in Timisoara, Romania, in July 2021. The 12 full papers, 7 system descriptions, 1 system entry, and 3 abstracts of invited papers presented were carefully reviewed and selected from a total of 38 submissions. The papers focus on advances in formalization, automatic theorem proving, and learning search and classification, teaching, and geometric reasoning and logic and systems among other topics. The conference was held virtually due to the COVID-19 pandemic.

Handbook of Satisfiability A. Biere, H. van Maaren, 2021-05-05. Propositional logic has been recognized throughout the centuries as one of the cornerstones of reasoning in philosophy and mathematics. Over time, its formalization into Boolean algebra was accompanied by the recognition that a wide range of combinatorial problems can be expressed as propositional satisfiability (SAT) problems. Because of this dual role, SAT developed into a mature, multi-faceted scientific discipline, and from the earliest days of computing, a search was underway to discover how to solve SAT problems in an automated fashion. This book, the *Handbook of Satisfiability*, is the second, updated and revised edition of the book first published in 2009 under the same name. The handbook aims to capture the full breadth and depth of SAT and to bring together significant progress and advances in automated solving. Topics covered span practical and theoretical research on SAT and its applications and include search algorithms, heuristics, analysis of algorithms, hard instances, randomized formulae, problem encodings, industrial applications, solvers, simplifiers, tools, case studies, and empirical results. SAT is interpreted in a broad sense, so as well as propositional satisfiability, there are chapters covering the domain of quantified Boolean formulae (QBF), constraints programming, techniques for word level problems, and their propositional encoding, and satisfiability modulo theories (SMT). An extensive bibliography completes each chapter. This second edition of the handbook will be of interest to researchers, graduate students, final year undergraduates, and practitioners using or contributing to SAT and will provide both an inspiration and a rich resource for their work.

Edmund Clarke, 2007 ACM Turing Award Recipient. SAT solving is a key technology for 21st century computer science. Donald Knuth, 1974 ACM Turing Award Recipient. SAT is evidently a killer app because it is key to the solution of so many other problems. Stephen Cook, 1982 ACM Turing Award Recipient. The SAT problem is at the core of arguably the most fundamental question in computer science: What makes a problem hard?

**Principles and Practice of Constraint Programming** Barry O'Sullivan, 2014-08-13. This book constitutes the refereed conference proceedings of the 20th International Conference on Principles and Practice of Constraint Programming (CP 2014) held in Lyon, France, in

September 2014 The 65 revised papers presented together with 4 invited talks were carefully selected from 108 submissions The scope of CP 2014 includes all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation and agreement technologies *Proceedings of SAI Intelligent Systems Conference (IntelliSys) 2016* Yaxin Bi, Supriya Kapoor, Rahul Bhatia, 2017-08-19 These proceedings of the SAI Intelligent Systems Conference 2016 IntelliSys 2016 offer a remarkable collection of chapters on a wide range of topics in intelligent systems artificial intelligence and their applications to the real world Authors hailing from 56 countries on 5 continents submitted 404 papers to the conference attesting to the global importance of the conference s themes After being reviewed 222 papers were accepted for presentation and 168 were ultimately selected for these proceedings Each has been reviewed on the basis of its originality novelty and rigorousness The papers not only present state of the art methods and valuable experience from researchers in the related research areas they also outline the field s future development

Advances in Knowledge Discovery and Data Mining Kamal Karlapalem, Hong Cheng, Naren Ramakrishnan, R. K. Agrawal, P. Krishna Reddy, Jaideep Srivastava, Tanmoy Chakraborty, 2021-05-08 The 3 volume set LNAI 12712 12714 constitutes the proceedings of the 25th Pacific Asia Conference on Advances in Knowledge Discovery and Data Mining PAKDD 2021 which was held during May 11 14 2021 The 157 papers included in the proceedings were carefully reviewed and selected from a total of 628 submissions They were organized in topical sections as follows Part I Applications of knowledge discovery and data mining of specialized data Part II Classical data mining data mining theory and principles recommender systems and text analytics Part III Representation learning and embedding and learning from data

Machine Learning and Knowledge Discovery in Databases Hendrik Blockeel, Kristian Kersting, Siegfried Nijssen, Filip Železný, 2013-08-28 This three volume set LNAI 8188 8189 and 8190 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2013 held in Prague Czech Republic in September 2013 The 111 revised research papers presented together with 5 invited talks were carefully reviewed and selected from 447 submissions The papers are organized in topical sections on reinforcement learning Markov decision processes active learning and optimization learning from sequences time series and spatio temporal data data streams graphs and networks social network analysis natural language processing and information extraction ranking and recommender systems matrix and tensor analysis structured output prediction multi label and multi task learning transfer learning bayesian learning graphical models nearest neighbor methods ensembles statistical learning semi supervised learning unsupervised learning subgroup discovery outlier detection and anomaly detection privacy and security evaluation applications and medical applications *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems* Nicolas Beldiceanu, Narendra Jussien, Eric Pinson, 2012-05-15 This book constitutes the refereed proceedings of the 9th International Conference on Integration of AI and OR Techniques in Constraint Programming for

Combinatorial Optimization Problems CPAIOR 2012 held in Nantes France in May June 2012 The 26 revised full papers presented were carefully reviewed and selected from 64 submissions The papers are focused on both theoretical and practical application oriented issues in combinatorial optimization and feature current research with a special focus on inference and relaxation methods integration methods modeling methods innovative applications of CP AI OR techniques and implementation of CP AI OR techniques and optimization systems

**Integration of Constraint Programming, Artificial Intelligence, and Operations Research** Guido Tack, 2025-06-28 This two volume set LNCS 15762 15763 constitutes the proceedings of the 22nd International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research CPAIOR 2025 held in Melbourne VIC Australia November 10 13 2025 The 30 full papers and the 2 short papers presented in the proceedings were carefully reviewed and selected from a total of 68 submissions The conference featured a masterclass and several joint invited talks that covered topics of interest at the intersection of constraint programming artificial Intelligence operations research planning and scheduling and knowledge representation

*Handbook of Parallel Constraint Reasoning* Youssef Hamadi, Lakhdar Sais, 2018-04-05 This is the first book presenting a broad overview of parallelism in constraint based reasoning formalisms In recent years an increasing number of contributions have been made on scaling constraint reasoning thanks to parallel architectures The goal in this book is to overview these achievements in a concise way assuming the reader is familiar with the classical sequential background It presents work demonstrating the use of multiple resources from single machine multi core and GPU based computations to very large scale distributed execution platforms up to 80 000 processing units The contributions in the book cover the most important and recent contributions in parallel propositional satisfiability SAT maximum satisfiability MaxSAT quantified Boolean formulas QBF satisfiability modulo theory SMT theorem proving TP answer set programming ASP mixed integer linear programming MILP constraint programming CP stochastic local search SLS optimal path finding with A model checking for linear time temporal logic MC LTL binary decision diagrams BDD and model based diagnosis MBD The book is suitable for researchers graduate students advanced undergraduates and practitioners who wish to learn about the state of the art in parallel constraint reasoning



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