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Artificial Intelligence Gennady S. Osipov,Aleksandr I. Panov,Konstantin S. Yakovlev,2019-10-17 This volume contains selected tutorial and young scientist school papers of the 5th RAAI Summer School on Artificial Intelligence held in July 2019 at Institute of Physics and Technology MIPT campus in Dolgoprudny a suburb of Moscow Russia The 11 chapters in this volume present papers focusing on various important aspects of Multiagent systems Behavior planning Natural language processing Modeling of reasoning and Machine learning and data analysis **Automated Configuration Problem Solving** Charles J. Petrie,2012-06-15 Automated Configuration has long been the subject of intensive research especially in Artificial Intelligence It is a pervasive problem to be solved and it is a good test of various knowledge representation and reasoning techniques The problem shows up in applications such as various electrical circuit design utility computing and even concurrent engineering Automated Configuration Problem Solving defines the ubiquitous problem illustrates the various solution techniques and includes a survey using these techniques from the mid 70 s until the mid 90 s During this time various general approaches were developed and then become more specialized This book covers the development of the general problem solving techniques for automated configuration which are based on both published academic work and patents **Constraint Solving and Planning with Picat** Neng-Fa Zhou,Håkan Kjellerstrand,Jonathan Fruhman,2015-11-07 This book introduces a new logic based multi paradigm programming language that integrates logic programming functional programming dynamic programming with tabling and scripting for use in solving combinatorial search problems including CP SAT and MIP mixed integer programming based solver modules and a module for planning that is implemented using tabling The book is useful for undergraduate and graduate students researchers and practitioners *Essentials of Constraint Programming* Thom Frühwirth,Slim Abdennadher,2003-02-27 The use of constraints had its scientific and commercial breakthrough in the 1990s Programming with constraints makes it possible to model and specify problems with uncertain incomplete information and to solve combi natorial problems as they are abundant in industry and commerce such as scheduling planning transportation resource allocation layout design and analysis This book is a short concise and complete presentation of constraint programming and reasoning covering theoretical foundations algorithms implementations examples and applications It is based on more than a decade of experience in teaching and research about this subject This book is intended primarily for graduate students researchers and practitioners in diverse areas of computer science and related fields including programming languages computational logic symbolic computation and ar tificial intelligence The book is complemented by a web page with teaching material software links and more We take the reader on a step by step journey through the world of constraint based programming and constraint reasoning Feel free to join in Acknowledgements Thorn thanks his wife Andrea and his daughter Anna for everything He dedicates his contribution to the book to the memory of his mother Grete Slim thanks his wife N abila and his daughters Shirine and Amira for their ongoing

support and patience **Handbook of Constraint Programming** Francesca Rossi,Peter van Beek,Toby Walsh,2006-08-18 Constraint programming is a powerful paradigm for solving combinatorial search problems that draws on a wide range of techniques from artificial intelligence computer science databases programming languages and operations research Constraint programming is currently applied with success to many domains such as scheduling planning vehicle routing configuration networks and bioinformatics The aim of this handbook is to capture the full breadth and depth of the constraint programming field and to be encyclopedic in its scope and coverage While there are several excellent books on constraint programming such books necessarily focus on the main notions and techniques and cannot cover also extensions applications and languages The handbook gives a reasonably complete coverage of all these lines of work based on constraint programming so that a reader can have a rather precise idea of the whole field and its potential Of course each line of work is dealt with in a survey like style where some details may be neglected in favor of coverage However the extensive bibliography of each chapter will help the interested readers to find suitable sources for the missing details Each chapter of the handbook is intended to be a self contained survey of a topic and is written by one or more authors who are leading researchers in the area The intended audience of the handbook is researchers graduate students higher year undergraduates and practitioners who wish to learn about the state of the art in constraint programming No prior knowledge about the field is necessary to be able to read the chapters and gather useful knowledge Researchers from other fields should find in this handbook an effective way to learn about constraint programming and to possibly use some of the constraint programming concepts and techniques in their work thus providing a means for a fruitful cross fertilization among different research areas The handbook is organized in two parts The first part covers the basic foundations of constraint programming including the history the notion of constraint propagation basic search methods global constraints tractability and computational complexity and important issues in modeling a problem as a constraint problem The second part covers constraint languages and solver several useful extensions to the basic framework such as interval constraints structured domains and distributed CSPs and successful application areas for constraint programming Covers the whole field of constraint programming Survey style chapters Five chapters on applications Integration of Constraint Programming, Artificial Intelligence, and Operations Research Emmanuel Hebrard,Nysret Musliu,2020-09-18 The volume LNCS 12296 constitutes the papers of the 17th International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research which will be held online in September 2020 The 32 regular papers presented together with 4 abstracts of fast track papers were carefully reviewed and selected from a total of 72 submissions Additionally this volume includes the 4 abstracts and 2 invited papers by plenary speakers The conference program also included a Master Class on the topic Recent Advances in Optimization Paradigms and Solving Technology *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 **ERCIM/CologNet 2002** Barry O'Sullivan,2003-04-07 This book constitutes the thoroughly refereed post proceedings of the Joint ERCIM CologNet International Workshop on Constraint Solving and Constraint Logic Programming held in Cork Ireland in June 2002 The 14 revised full papers presented were carefully selected for inclusion in the book during two rounds of reviewing and revision Among the topics addressed are verification and debugging of constraint logic programs modeling and solving CSPs explanation generation inference and inconsistency processing SAT and 0 1 encodings of CSPs soft constraints and constraint relaxation real world applications and distributed constraint solving **Principles and Practice of Constraint Programming** John Hooker,2018-08-22 This book constitutes the proceedings of the 24th International Conference on Principles and Practice of Constraint Programming CP 2018 held in Lille France in August 2018 The 41 full and 9 short papers presented in this volume were carefully reviewed and selected from 114 submissions They deal with 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 were organized according to the following topics tracks main technical track applications track CP and data science CP and music CP and operations research CP optimization and power system management multiagent and parallel CP and testing and verification **Recent Advances in Constraints** Javier Larrosa,Barry O'Sullivan,2011-03-11 This book constitutes the thoroughly refereed post proceedings of the 14th Annual ERCIM International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2009 held in Barcelona Spain in June 2009 The 9 revised full papers presented were carefully reviewed and selected for inclusion in this post proceedings The papers in this volume present original research results and applications of constraint solving and constraint logic programming in several domains Among the issues addressed are solving argumentation frameworks software consistency modeling languages static design routing dynamic constraint satisfaction and constraint based modeling Dynamic Flexible Constraint Satisfaction and its Application to AI Planning Ian Miguel,2003-11-14 First I would like to thank my principal supervisor Dr Qiang Shen for all his help advice and friendship throughout Many thanks also to my second supervisor Dr Peter Jarvis for his enthusiasm help and friendship I would also like to thank the other members of the Approximate and Qualitative Reasoning group at Edinburgh who have also helped and inspired me This project has been

Contents   **Constraint Handling in Metaheuristics and Applications** Anand J. Kulkarni,Efrén Mezura-Montes,Yong Wang,Amir H. Gandomi,Ganesh Krishnasamy,2021-04-12 This book aims to discuss the core and underlying principles and analysis of the different constraint handling approaches The main emphasis of the book is on providing an enriched literature on mathematical modelling of the test as well as real world problems with constraints and further development of generalized constraint handling techniques These techniques may be incorporated in suitable metaheuristics providing a solid optimized solution to the problems and applications being addressed The book comprises original contributions with an aim to develop and discuss generalized constraint handling approaches techniques for the metaheuristics and or the applications being addressed A variety of novel as well as modified and hybridized techniques have been discussed in the book The conceptual as well as the mathematical level in all the chapters is well within the grasp of the scientists as well as the undergraduate and graduate students from the engineering and computer science streams The reader is encouraged to have basic knowledge of probability and mathematical analysis and optimization The book also provides critical review of the contemporary constraint handling approaches The contributions of the book may further help to explore new avenues leading towards multidisciplinary research discussions This book is a complete reference for engineers scientists and students studying working in the optimization artificial intelligence AI or computational intelligence arena   Principles and Practice of Constraint Programming J. Christopher Beck,2017-08-22 This book constitutes the refereed conference proceedings of the 23nd International Conference on Principles and Practice of Constraint Programming CP 2017 held in Melbourne Australia from August 28 2017 until September 1 2017 The conference is colocated with the 20th International Conference on Theory and Applications of Satisfiability Testing SAT 2017 and the 33rd International Conference on Logic Programming The 46 revised full papers presented were carefully reviewed and selected from 115 submissions The scope of the contributions includes all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource al location scheduling configuration and planning The papers are grouped into the following tracks technical track application track machine

learning operations research satisfiability journal sister conference track [Principles and Practice of Constraint Programming](#) Helmut Simonis,2020-09-06 This book constitutes the proceedings of the 26th International Conference on Principles and Practice of Constraint Programming CP 2020 held in Louvain la Neuve Belgium in September 2020 The conference was held virtually due to the COVID 19 pandemic The 55 full papers presented in this volume were carefully reviewed and selected from 122 submissions They deal with 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 were organized according to the following topics tracks technical track application track and CP and data science and machine learning **Recent Advances in Constraints** Krzysztof Apt,Francois Fages,Francesca Rossi,Peter Szeredi,Josef Váncza,2004-04-07 Constraint programming is the fruit of several decades of research carried out in mathematical logic automated deduction operations research and arti cial intelligence The tools and programming languages arising from this research eldhaveenjoyedrealsuccessintheindustrialworldastheycontributetosolving hard combinatorial problems in diverse domains such as production planning communication networks robotics and bioinformatics This volume contains the extended and reviewed versions of a selection of papers presented at the Joint ERCIM CoLogNET International Workshop on Constraint Solving and Constraint Logic Programming CSCLP2003 which was held from June 30 to July 2 2003 The venue chosen for the seventh edition of this annual workshop was the Computer and Automation Research Institute of the Hungarian Academy of Sciences MTA SZTAKI in Budapest Hungary This institute is one of the 20 members of the Working Group on Constraints of the European Research Consortium for Informatics and Mathematics ERCIM For many participants this workshop provided the rst opportunity to visit their ERCIM partner in Budapest CoLogNET is the European funded network of excellence dedicated to s porting and enhancing cooperation and research on all areas of computational logic and continues the work done previously by the Compulog Net In part ular the aim of the logic and constraint logic programming area of CoLogNET is to foster and support all research activities related to logic programming and constraint logic programming The editors would like to take the opportunity and thank all the authors who submitted papers to this volume as well as the reviewers for their helpful work [Complexity of Constraints](#) Nadia Creignou,Phokion G. Kolaitis,Heribert Vollmer,2008-12-23 Nowadays constraint satisfaction problems CSPs are ubiquitous in many different areas of computer science from artificial intelligence and database systems to circuit design network optimization and theory of programming languages Consequently it is important to analyze and pinpoint the computational complexity of certain algorithmic tasks related to constraint satisfaction The complexity theoretic results of these tasks may have a direct impact on for instance the design and processing of database query languages or strategies in data mining or the design and implementation of planners This state of the art survey contains the papers that were invited by the organizers after conclusion of an International Dagstuhl Seminar on Complexity of Constraints held in Dagstuhl Castle

Germany in October 2006 A number of speakers were solicited to write surveys presenting the state of the art in their area of expertise These contributions were peer reviewed by experts in the field and revised before they were collated to the 9 papers of this volume In addition the volume contains a reprint of a survey by Kolaitis and Vardi on the logical approach to constraint satisfaction that first appeared in Finite Model Theory and its Applications published by Springer in 2007

   Recent Advances in Constraints Boi Faltings,Adrian Petcu,François Fages,Francesca Rossi,2005-03-01 This book constitutes the thoroughly refereed and extended post proceedings of the ERCIM CoLogNet International Workshop on Constraint Satisfaction and Constraint Logic Programming CSCLP 2004 held in Lausanne Switzerland in June 2004 Besides papers taken from the workshop others are submitted in response to an open call for papers after the workshop The 15 revised full papers were carefully reviewed and selected from 30 submissions The papers are organized in topical sections on constraint propagation constraint search and applications   *Recent Advances in Constraints* Angelo Oddi,François Fages,Francesca Rossi,2009-07-28 This book constitutes the thoroughly refereed and extended post workshop proceedings of the 13th Annual ERCIM International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2008 held in Rome Italy in June 2008 The 9 revised full papers presented were carefully reviewed and selected from 14 initial submissions The papers in this volume present original research results as well as applications in many aspects of constraint solving and constraint logic programming Research topics that can be found in the papers are rst order constraints symmetry breaking global constraints constraint optimization problems distributed constraint solving problems soft constraints as well as the analysis of application domains such as cumulative resource problems and hybrid systems   Principles and Practice of Constraint Programming Peter J. Stuckey,2008-08-28 This volume contains the proceedings of the 14th International Conference on Principles and Practice of Constraint Programming CP 2008 held in Sydney Australia September 14 18 2008 The conference was held in conjunction with the International Conference on Automated Planning and Scheduling ICAPS 2008 and the International Conference on Knowledge Representation and R soning KR 2008 Information about the conference can be found at the w sitehttp www unimelb edu au cp2008 Held annually the CP conference series is the premier international conference on constraint programming The conference focuses on all aspects of computing with constraints The CP conf ence series is organized by the Association for Constraint Programming ACP Information about the conferences in the series can be found on the Web at http www cs ualberta ca ai cp Information about ACP can be found athttp www a4cp org CP 2008 included two calls for contributions a call for research papers scribing novel contributions in the eld and a call for application papers scribing applications of constraint technology For the rst time authors could directly submit short papers for consideration by the committee The research track received 84 long submissions and 21 short submissions and the application track received 15 long submissions Each paper received at least three reviews which the authors had the opportunity to see and to react to before the papers and their reviews were discussed extensively by the

members of the Program Committee   *Geometric Constraint Solving and Applications* Beat Brüderlin,Dieter Roller,2012-12-06 Geometric constraint programming increases flexibility in CAD design specifications and leads to new conceptual design paradigms This volume features a collection of work by leading researchers developing the various aspects of constraint based product modeling In an introductory chapter the role of constraints in CAD systems of the future and their implications for the STEP data exchange format are discussed The main part of the book deals with the application of constraints to conceptual and collaborative design as well as state of the art mathematical and algorithmic methods for constraint solving

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