SPRINGER BRIEFS IN INTELLIGENT SYSTEMS
ARTIFICIAL INTELLIGENCE, MULTIAGENT SYSTEMS, AND COGNITIVE ROBOTICS

Neng-Fa Zhou
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Constraint Solving and Planning with Picat

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Online Constraint Solving Planning Springerbriefs Intelligent

Gabriele Kern-Isberner,Johannes Fürnkranz,Matthias Thimm

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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 **Web Service Composition** Charles J. Petrie,2016-06-09 This book carefully defines the technologies involved in web service composition and provides a formal basis for all of the composition approaches and shows the trade offs among them By considering web services as a deep formal topic some surprising results emerge such as the possibility of eliminating workflows It examines the immense potential of web services composition for revolutionizing business IT as evidenced by the marketing of Service Oriented Architectures SOAs The author begins with informal considerations and builds to the formalisms slowly with easily understood motivating examples Chapters examine the importance of semantics for web services and ways to apply semantic technologies Topics included range from model checking and Golog to WSDL and AI planning This book is based upon lectures given to economics students and is suitable for business technologist with some computer science background The reader can delve as deeply into the technologies as desired **KI 2017: Advances in Artificial Intelligence** Gabriele Kern-Isberner,Johannes Fürnkranz,Matthias Thimm,2017-09-18 This book constitutes the refereed proceedings of the 40th Annual German Conference on Artificial Intelligence KI 2017 held in Dortmund Germany in September 2017 The 20 revised full technical papers presented together with 16 short technical communications were carefully reviewed and selected from 73 submissions The conference cover a range of topics from e g agents robotics cognitive sciences machine learning planning knowledge representation reasoning and ontologies with numerous applications in areas like social media psychology transportation systems and reflecting the richness and diversity of their field 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 Closed Loop Management in Mineral Resource Extraction Jörg Benndorf,2020-02-13 This book describes an innovative closed loop concept that allows the feedback of online data from operational monitoring to create mining intelligence The application of this concept promises significant improvements in economic and environmental key performance indicators for any mining operation Combining theory with industrial case studies the book guides readers through this process by providing theoretical background addressing practical issues related to operational implementation and illustrating the impact on selected examples This new concept is presented using the example of a bulk and gold mining application but is applicable at any mine where grade control is important The book is of interest to industrial professionals involved in operational monitoring mining intelligence and mine planning optimization as well as to researchers and academics in the field of applied geostatistics *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 *Essentials of Constraint Programming* Thom Frühwirth,Slim Abdennadher,2013-03-14 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 *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 **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 *Recent Advances in Constraints* Boi Faltings,Adrian Petcu,François Fages,Francesca Rossi,2005-03-08 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** 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

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 **Extensions of Constraint Solving for Proof Planning** Erica Melis,Tobias Müller,Jürgen Zimmer,1999 **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 funded by an EPSRC studentship award num ber 97305803 I would like therefore to extend my gratitude to EPSRC for supporting this work Many thanks to the staff at Edinburgh University for all their help and support and for promptly fixing any technical problems that I have had My whole family have been both encouraging and supportive throughout the completion of this book for which I am forever indebted York April 2003 Ian Miguel Contents List of Figures XV 1 Introduction 1 1 1 Solving Classical CSPs 2 1 2 Applicat ions of Classical CSP 3 1 3 Limitations of Classical CSP 6 1 3 1 Flexible CSP 6 1 3 2 Dynamic CSP 7 1 4 Dynamic Flexible CSP 7 1 5 Flexible Planning a DFCSP Application 8 1 6 Structure 9 1 7 Contributions and their Significance 11 2 The Constraint Satisfaction Problem 13 2 1 Constraints and Constraint Graphs 13 2 2 Tree Search Solution Techniques for Classical CSP 16 2 2 1 Backtrack 17 2 2 2 Backjumping 18 2 2 3 Conflict Directed Backjumping 19 2 2 4 Backmarking **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 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 *Semirings for Soft Constraint Solving and Programming* Stefano Bistarelli,2004-07-16 Constraint satisfaction and constraint programming have shown to be very simple but powerful ideas with applications in various areas Still in the last ten years the simple notion of constraints has shown some deficiencies concerning both theory and practice typically in the way over constrained problems and preferences are treated For this reason the notion of soft constraints has been introduced with semiring based soft constraints and valued constraints being the two main general frameworks This book includes formal definitions and properties of semiring based soft constraints as well as their use within constraint logic

programming and concurrent constraint programming Moreover the author shows how to adapt existing notions and techniques such as abstraction and interchangeability to the soft constraint framework and it is demonstrated how soft constraints can be used in some application areas such as security Overall this book is a great starting point for anyone interested in understanding the basics of semiring based soft constraints *Recent Advances in Constraints* François Fages,Francesca Rossi,Sylvain Soliman,2008-12-01 This book constitutes the thoroughly refereed and extended post workshop proceedings of the 12th Annual ERCIM International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2007 held in Rocquencourt France in June 2007 The 10 revised full papers presented were carefully reviewed and selected from 16 initial submissions The papers address all aspects of constraint and logic programming including foundational issues implementation techniques new applications as well as teaching issues Particular emphasis is placed on assessing the current state of the art and identifying future directions 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

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