

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

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Constraint Solving and Planning with Picat

Constraint Solving And Planning With Picat Springerbriefs In Intelligent Systems

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Constraint Solving And Planning With Picat Springerbriefs In Intelligent Systems:

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 Tools and Algorithms

for the Construction and Analysis of Systems Sriram Sankaranarayanan,Natasha Sharygina,2023-04-19 This open access book constitutes the proceedings of the 29th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2023 which was held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2023 during April 22 27 2023 in Paris France The 56 full papers and 6 short tool demonstration papers presented in this volume were carefully reviewed and selected from 169 submissions The proceedings also contain 1 invited talk in full paper length 13 tool papers of the affiliated competition SV Comp and 1 paper consisting of the competition report TACAS is a forum for researchers developers and users interested in rigorously based tools and algorithms for the construction and analysis of systems The conference aims to bridge the gaps between different communities with this common interest and to support them in their quest to improve the utility reliability flexibility and efficiency of tools and algorithms for building computer controlled systems **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 *Rule Technologies. Research, Tools, and Applications* Jose Julio Alferes,Leopoldo Bertossi,Guido

Governatori,Paul Fodor,Dumitru Roman,2016-06-27 This book constitutes the refereed proceedings of the 10th International RuleML Symposium RuleML 2016 held in New York NY USA during July 2016 The 19 full papers 1 short paper 2 keynote abstracts 2 invited tutorial papers 1 invited standard paper presented were carefully reviewed and selected from 36 submissions RuleML is a leading conference aiming to build bridges between academia and industry in the field of rules and its applications especially as part of the semantic technology stack It is devoted to rule based programming and rule based systems including production rule systems logic programming rule engines and business rule engines and business rule management systems Semantic Web rule languages and rule standards and technologies and research on inference rules transformation rules decision rules and ECA rules **Advances in Systems Engineering** Leszek Borzowski,Henry

Selvaraj,Jerzy Świątek,2021-12-10 This book features high quality peer reviewed papers from the 28th International

Conference Systems Engineering ICSEng 2021 held at Wroc aw University of Science and Technology Wroc aw Poland on December 14 16 2021 Presenting the latest developments and technical solutions in systems engineering it covers a variety of topics such as analog and digital hardware systems artificial intelligence and machine learning distance learning games E business systems financial technology general control systems hyper automation and Industry 4 0 Internet of things sensor and biometric systems medical systems and applications robotics computer vision HCI and parallel and distributed systems As such it helps those in the computer industry and academia to use the advances in next generation systems engineering technology to shape real world applications

Prolog: The Next 50 Years David S. Warren, Veronica Dahl, Thomas Eiter, Manuel V. Hermenegildo, Robert Kowalski, Francesca Rossi, 2023-06-16 This volume was motivated by the Year of Prolog initiative launched to celebrate the 50th anniversary of the emergence of Prolog through the work of Alain Colmerauer's team in Marseille The volume editors authors and scientific advisors and reviewers have been the leading researchers and programmers in this field over decades and the book represents an excellent overview of the field its successes and its future After a first chapter that gently introduces the Prolog programming language using examples the next 7 papers discuss general views of the language possible extensions for the future and how Prolog can generally be used to solve problems the next 5 papers explore ideas and experiences of teaching Prolog programming and then 2 papers discuss technology that has been developed for help in that teaching the next 3 papers describe new languages based on Prolog which show future directions for logic programming the next 5 chapters explain the applications that were the finalists for the 2022 Alain Colmerauer Prize and the final 8 papers describe applications developed using the Prolog language demonstrating the language's range

Applying Constraint Satisfaction Techniques to AI Planning Problems Daniel Buettnner, 2003

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 number 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

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Directed Backjumping 19 2 2 4 Backmarking *Foundations of Constraint Satisfaction* Edward Tsang, 2014 This seminal text of Computer Science the most cited book on the subject is now available for the first time in paperback Constraint satisfaction is a decision problem that involves finite choices It is ubiquitous The goal is to find values for a set of variables that will satisfy a given set of constraints It is the core of many applications in artificial intelligence and has found its application in many areas such as planning and scheduling Because of its generality most AI researchers should be able to benefit from having good knowledge of techniques in this field Originally published in 1993 this now classic book was the first attempt to define the scope of constraint satisfaction It covers both the theoretical and the implementation aspects of the subject It provides a framework for studying this field relates different research and resolves ambiguity in a number of concepts and algorithms in the literature This seminal text is arguably the most rigorous book in the field All major concepts were defined in First Order Predicate Calculus Concepts defined this way are precise and unambiguous *Constraint Satisfaction Techniques for Agent-Based Reasoning* Nicoleta Neagu, 2005-01-28 Constraint satisfaction problems are significant in the domain of automated reasoning for artificial intelligence They can be applied to the modeling and solving of a wide range of combinatorial applications such as planning scheduling and resource sharing in a variety of practical domains such as transportation production supply chains network management and human resource management In this book we study new techniques for solving constraint satisfaction problems with a special focus on solution adaptation applied to agent reasoning *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 *Constraints and AI Planning* Alexander Nareyek,2000-08-01 Consat Hans Werner Gsgen,1989-01-01 By Hans Gusgen **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 Heuristically Guided Constraint Satisfaction for AI Planning Mark Judge,2015 Standard Planning Domain Definition Language PDDL planning problem definitions may be reformulated and solved using alternative techniques One such paradigm Constraint Programming CP has successfully been used in various planner architectures in recent years The efficacy of a given constraint reformulation depends on the encoding method search technique s employed and the consequent amount of propagation Despite advances in this area constraint based planners have failed to match the performance of other approaches One reason for this is that the structural information that is implicit in the domain problem instance description is lost in the reformulation process Hence to achieve better performance a constraint based planner should have an appropriate encoding and a search procedure informed by the structure of the original problem This thesis describes a system that aims to improve planner performance by employing such methods The planner uses a table constraint encoding together with a new variable value ordering heuristic This ordered goal oriented guidance reduces the search space and better directs the search focus The system also makes use of novel meta variable techniques for goal locking and resource assignment These improve propagation and prune the search space This CP based planning architecture is shown to perform well on a range of problem instances taken from recent International Planning Competitions IPCs 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

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, 2005-03-08 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

Principles of Constraint Programming Krzysztof Apt, 2003-08-28 Constraints are everywhere most computational problems can be described in terms of restrictions imposed on the set of possible solutions and constraint programming is a problem solving technique that works by incorporating those restrictions in a programming environment It draws on methods from combinatorial optimisation and artificial intelligence and has been successfully applied in a number of fields from scheduling computational biology finance electrical engineering and operations research through to numerical analysis This textbook for upper division students provides a thorough and structured account of the main aspects of constraint programming The author provides many worked examples that illustrate the usefulness and versatility of this approach to programming as well as many exercises throughout the book that illustrate techniques test skills and extend the text Pointers to current research extensive historical and bibliographic notes and a comprehensive list of references will also be valuable to professionals in computer science and artificial intelligence

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

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