

Answer Set Programming and CLASP A Tutorial

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Abstract. We provide a tutorial on answer set programming, a modern approach towards true declarative programming. We first introduce the required theoretical background in a compact, yet sufficient way and continue to elaborate problem encodings for some well known problems. We do so by also introducing the tools *gringo* and *clasp*, a sophisticated state-of-the-art grounder and solver, respectively. In that way we cover theoretical as well as practical aspects of answer set programming, such that the interested reader will gather sufficient knowledge and experience in order to continue discovering the field of answer set programming.

1 Introduction

Answer set programming (ASP) is a modern approach to declarative programming, where a user focusses on declaratively specifying his or her problem. ASP has its roots in deductive databases, logic programming, logic based knowledge representation and reasoning, constraint solving, and satisfiability testing. It can be applied in a uniform way to search problems in the classes P , NP , and NP^{NP} as they occur in application domains like planning, configuration, code optimization, database integration, decision support, model checking, robotics, system syntheses, and many more. We assume the reader to be familiar with propositional and first-order logic as well as with logic programming [5,13,3].

2 The Interview Example

A college in the USA uses the following rules for awarding scholarships to students: (1) Every student with a GPA of at least 3.8 is eligible. (2) Every minority student with a GPA of at least 3.6 is eligible. (3) No student with a GPA under 3.6 is eligible. (4) The students whose eligibility is not determined by these rules are interviewed by the scholarship committee.

These rules can be encoded in the following program:

$$\begin{aligned} \text{eligible}(X) &\leftarrow \text{highGPA}(X) \\ \text{eligible}(X) &\leftarrow \text{minority}(X) \wedge \text{fairGPA}(X) \\ \neg \text{eligible}(X) &\leftarrow \neg \text{fairGPA}(X) \\ \text{interview}(X) &\leftarrow \sim \text{eligible}(X) \wedge \sim \neg \text{eligible}(X) \end{aligned} \tag{1}$$

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Theoretical Aspects of Computing - ICTAC 2005 Dang Van Hung, 2005-10-04 This book constitutes the refereed proceedings of the Second International Colloquium on Theoretical Aspects of Computing ICTAC 2005 held in Hanoi Vietnam in October 2005 The 35 revised full papers presented together with 5 invited talks and a summary of 5 tutorials were carefully reviewed and selected from 122 submissions The papers are organized in topical sections on formal languages computer science logics program construction real time systems concurrency and refinement software security quantitative logics object orientation and component systems model checking and algorithms and applied logics and computing theory

Logic Programming Verónica Dahl, Ilkka Niemelä, 2007-08-24 This book contains the refereed proceedings of the 23rd International Conference on Logic Programming ICLP 2007 held in Porto Portugal The 22 revised full papers together with two invited talks 15 poster presentations and the abstracts of five doctoral consortium articles cover all issues of current research in logic programming including theory functional and constraint logic programming program analysis answer set programming semantics and applications

Reasoning Web. Causality, Explanations and Declarative Knowledge Leopoldo Bertossi, Guohui Xiao, 2023-04-27 The purpose of the Reasoning Web Summer School is to disseminate recent advances on reasoning techniques and related issues that are of particular interest to Semantic Web and Linked Data applications It is primarily intended for postgraduate students postdocs young researchers and senior researchers wishing to deepen their knowledge As in the previous years lectures in the summer school were given by a distinguished group of expert lecturers The broad theme of this year's summer school was Reasoning in Probabilistic Models and Machine Learning and it covered various aspects of ontological reasoning and related issues that are of particular interest to Semantic Web and Linked Data applications The following eight lectures were presented during the school Logic Based Explainability in Machine Learning Causal Explanations and Fairness in Data Statistical Relational Extensions of Answer Set Programming VADALOG Its Extensions and Business Applications Cross Modal Knowledge Discovery Inference and Challenges Reasoning with Tractable Probabilistic Circuits From Statistical Relational to Neural Symbolic Artificial Intelligence Building Intelligent Data Apps in Rel using Reasoning and Probabilistic Modelling

Correct Reasoning Esra Erdem, Joohyung Lee, Yuliya Lierler, David Pearce, 2012-06-03 This Festschrift published in honor of Vladimir Lifschitz on the occasion of his 65th birthday presents 39 articles by colleagues from all over the world with whom Vladimir Lifschitz had cooperation in various respects The 39 contributions reflect the breadth and the depth of the work of Vladimir Lifschitz in logic programming circumscription default logic action theory causal reasoning and answer set programming

Reasoning Web. Semantic Technologies for Information Systems Sergio Tessaris, Enrico Franconi, Thomas Eiter, Claudio Gutierrez, Siegfried Handschuh, Marie-Christine Rousset, Renate Schmidt, 2009-08-17 This book contains a collection of revised tutorial papers based on lectures given by researchers at the 5th International Summer School on the Reasoning Web It introduces semantic

web methods and research issues with a particular emphasis on reasoning **Reasoning Web. Semantic Interoperability on the Web** Giovambattista Ianni, Domenico Lembo, Leopoldo Bertossi, Wolfgang Faber, Birte Glimm, Georg Gottlob, Steffen Staab, 2017-06-27 This volume contains the lecture notes of the 13th Reasoning Web Summer School RW 2017 held in London UK in July 2017 In 2017 the theme of the school was Semantic Interoperability on the Web which encompasses subjects such as data integration open data management reasoning over linked data database to ontology mapping query answering over ontologies hybrid reasoning with rules and ontologies and ontology based dynamic systems The papers of this volume focus on these topics and also address foundational reasoning techniques used in answer set programming and ontologies Reasoning Web. Web Logic Rules Wolfgang Faber, Adrian Paschke, 2015-07-17 This volume contains the lecture notes of the 11th Reasoning Web Summer School 2015 held in Berlin Germany in July August 2015 In 2015 the theme of the school was Web Logic Rules This Summer School is devoted to this perspective and provides insight into the semantic Web linked data ontologies rules and logic *Logics in Artificial Intelligence* Sergio Flesca, 2002-09-11 This book constitutes the refereed proceedings of the European Conference on Logics in Artificial Intelligence JELIA 2002 held in Cosenza Italy in September 2002 The 41 revised full papers presented together with 11 system descriptions and 3 invited contributions were carefully reviewed and selected from more than 100 submissions The papers are organized in topical sections on multi agent systems evolution and changes description logic and the semantic web complexity issues probabilistic logic AI planning modal logic and causal reasoning theory reasoning under uncertainty satisfiability paraconsistency reasoning actions and caution logic for agents semantics and optimization issues in answer set semantics **Reasoning Web** Pedro Barahona, François Bry, Enrico Franconi, Nicola Henze, Ulrike Sattler, 2006-08-29 This book presents thoroughly arranged tutorial papers corresponding to lectures given by leading researchers at the Second International Summer School on Reasoning Web in Lisbon Portugal in September 2006 Building on the predecessor school held in 2005 and published as LNCS 3564 the ten tutorial lectures presented provide competent coverage of current topics in semantic Web research and development *Reasoning Web. Declarative Artificial Intelligence* Marco Manna, Andreas Pieris, 2020-10-17 This volume contains 8 lecture notes of the 16th Reasoning Web Summer School RW 2020 held in Oslo Norway in June 2020 The Reasoning Web series of annual summer schools has become the prime educational event in the field of reasoning techniques on the Web attracting both young and established researchers The broad theme of this year's summer school was Declarative Artificial Intelligence and it covered various aspects of ontological reasoning and related issues that are of particular interest to Semantic Web and Linked Data applications The following eight lectures have been presented during the school Introduction to Probabilistic Ontologies On the Complexity of Learning Description Logic Ontologies Explanation via Machine Arguing Stream Reasoning From Theory to Practice First Order Rewritability of Temporal Ontology Mediated Queries An Introduction to Answer Set Programming and Some of Its Extensions Declarative Data Analysis using Limit Datalog Programs

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Table of Contents Answer Set Programming Tutorial

1. Understanding the eBook Answer Set Programming Tutorial
 - The Rise of Digital Reading Answer Set Programming Tutorial
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Set Programming Tutorial
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Set Programming Tutorial
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Set Programming Tutorial
 - Personalized Recommendations
 - Answer Set Programming Tutorial User Reviews and Ratings

- Answer Set Programming Tutorial and Bestseller Lists
- 5. Accessing Answer Set Programming Tutorial Free and Paid eBooks
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 - Answer Set Programming Tutorial Budget-Friendly Options
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 - Interactive Elements Answer Set Programming Tutorial
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 - Participating in Virtual Book Clubs
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- 9. Balancing eBooks and Physical Books Answer Set Programming Tutorial
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Set Programming Tutorial
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Set Programming Tutorial
 - Setting Reading Goals Answer Set Programming Tutorial
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Set Programming Tutorial
 - Fact-Checking eBook Content of Answer Set Programming Tutorial
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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he began working for vogue in 1929 joining the industry in the midst of change where photography was becoming the
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