

LOGIC PROGRAM SYNTHESIS FROM INCOMPLETE INFORMATION

Pierre Flener

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Logic Program Synthesis From Incomplete Information

Robert Kowalski



Logic Program Synthesis From Incomplete Information:

Logic Program Synthesis from Incomplete Information Pierre Flener, 2012-12-06 Program synthesis is a solution to the software crisis. If we had a program that develops correct programs from specifications then program validation and maintenance would disappear from the software life cycle and one could focus on the more creative tasks of specification elaboration validation and maintenance because replay of program development would be less costly. This monograph describes a novel approach to Inductive Logic Programming ILP which cross fertilizes logic programming and machine learning. Aiming at the synthesis of recursive logic programs only and this from incomplete information we take a software engineering approach that is more appropriate than a pure artificial intelligence approach. This book is suitable as a secondary text for graduate level courses in software engineering and artificial intelligence and as a reference for practitioners of program synthesis.

Logic Program Synthesis and Transformation Norbert E. Fuchs, 2003-05-20 This volume contains the papers from the Seventh International Workshop on Logic Program Synthesis and Transformation LOPSTR 97 that took place in Leuven Belgium on July 10-12 1997 back to back with the Fourteenth International Conference on Logic Programming ICLP 97. Both ICLP and LOPSTR were organised by the K U Leuven Department of Computer Science. LOPSTR 97 was sponsored by Compulog Net and by the Flanders Research Network on Declarative Methods in Computer Science. LOPSTR 97 had 39 participants from 13 countries. There were two invited talks by Wolfgang Bibel Darmstadt on A multi level approach to program synthesis and by Henning Christiansen Roskilde on Implicit program synthesis by a reversible metainterpreter. Extended versions of both talks appear in this volume. There were 19 technical papers accepted for presentation at LOPSTR 97 out of 33 submissions. Of these 15 appear in extended versions in this volume. Their topics range over the fields of program synthesis program transformation program analysis tabling metaprogramming and inductive logic programming.

Program Development in Computational Logic Maurice Bruynooghe, Kung-Kiu Lau, 2004-06-17 1 The tenth anniversary of the LOPSTR symposium provided the incentive for this volume. LOPSTR started in 1991 as a workshop on logic program synthesis and transformation but later it broadened its scope to logic based program development in general that is program development in computational logic and hence the title of this volume. The motivating force behind LOPSTR has been the belief that declarative paradigms such as logic programming are better suited to program development tasks than traditional non declarative ones such as the imperative paradigm. Specification synthesis transformation or specialization analysis debugging and verification can all be given logical foundations thus providing a unifying framework for the whole development process. In the past 10 years or so such a theoretical framework has indeed begun to emerge. Even tools have been implemented for analysis verification and specialization. However it is fair to say that so far the focus has largely been on programming in the small. So the future challenge is to apply or extend these techniques to programming in the large in order to tackle software engineering in the real world. Returning to this volume

our aim is to present a collection of papers that reflect significant research efforts over the past 10 years. These papers cover the whole development process: specification, synthesis, analysis, transformation, and specialization, as well as semantics and systems.

Logic-Based Program Synthesis and Transformation Andy King, 2008-11-26. This post-proceedings volume of the 17th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2007 examines program termination, program transformation, constraint solving, and analysis, as well as software engineering.

Logic Program Synthesis and Transformation, 1991. *Integrated Formal Methods* Eerke Boiten, John Derrick, Graeme Smith, 2004-03-24. This book constitutes the refereed proceedings of the 4th International Conference on Integrated Formal Methods IFM 2004 held in Canterbury UK in April 2004. The 24 revised full papers presented together with 3 invited papers and one invited tutorial chapter were carefully reviewed and selected from 65 submissions. The papers are devoted to automating program analysis, state event based verification, formalizing graphical notions, refinement, object orientation, hybrid and timed automata, integration frameworks, verifying interactive systems, and testing and assertions.

Verification, Model Checking, and Abstract Interpretation Roberto Giacobazzi, Josh Berdine, Isabella Mastroeni, 2013-01-03. This book constitutes the refereed proceedings of the 14th International Conference on Verification, Model Checking, and Abstract Interpretation VMCAI 2013 held in Rome, Italy, in January 2013, co-located with the Symposium on Principles of Programming Languages POPL 2013. The 27 revised full papers presented were carefully reviewed and selected from 72 submissions. The papers cover a wide range of topics including program verification, model checking, abstract interpretation, and abstract domains, program synthesis, static analysis, type systems, deductive methods, program certification, debugging techniques, program transformation, optimization, hybrid and cyber physical systems.

Ai '93 - Proceedings Of The 6th Australian Joint Conference On Artificial Intelligence C. Rowles, N. Foo, H. Liu, 1993-09-23. This volume reflects the state of the art in artificial intelligence in the Australasian region. It covers machine learning, knowledge acquisition, cognitive modelling, robots and vision, natural language, automated reasoning, knowledge based systems, neural networks, and genetic algorithms, distributed AI, etc.

Computational Logic: Logic Programming and Beyond Robert Kowalski, 2002-07-12. The book contains the proceedings of the 12th European Testis Workshop and gives an excellent overview of the state of the art in testicular research. The chapters are written by leading scientists in the field of male reproduction who were selected on the basis of their specific area of research. The book covers all important aspects of testicular functioning, for example Sertoli and Leydig cell functioning, spermatogonial development and transplantation, meiosis and spermiogenesis. Even for those investigators who were not present at the workshop, this volume provides a clear impression of the topics discussed during that meeting.

Advances in Temporal Logic Howard Barringer, Michael Fisher, Dov M. Gabbay, Graham Gough, 2013-11-11. Time is a fascinating subject and has long since captured mankind's imagination from the ancients to modern man, both adult and child alike. It has been studied across a wide range of disciplines from the natural sciences to philosophy and logic. Today, thirty

plus years since Prior's work in laying out foundations for temporal logic and two decades on from Pnueli's seminal work applying of temporal logic in specification and verification of computer programs temporal logic has a strong and thriving international research community within the broad disciplines of computer science and artificial intelligence Areas of activity include but are certainly not restricted to Pure Temporal Logic e.g temporal systems proof theory model theory expressiveness and complexity issues algebraic properties application of game theory Specification and Verification e.g of reactive systems of real time components of user interaction of hardware systems techniques and tools for verification execution and prototyping methods Temporal Databases e.g temporal representation temporal query ing granularity of time update mechanisms active temporal data bases hypothetical reasoning Temporal Aspects in AI e.g modelling temporal phenomena in terval temporal calculi temporal nonmonotonicity interaction of temporal reasoning with action knowledge belief logics temporal planning Tense and Aspect in Natural Language e.g models ontologies temporal quantifiers connectives prepositions processing tempo ral statements Temporal Theorem Proving e.g translation methods clausal and non clausal resolution tableaux automata theoretic approaches tools and practical systems Computing and Combinatorics

Takao Asano, Hiroshi Imai, D.T. Lee, Shin-ichi Nakano, Takeshi Tokuyama, 2003-05-21 The abstracts and papers in this volume were presented at the Fifth Annual International Computing and Combinatorics Conference COCOON 99 which was held in Tokyo Japan from July 26 to 28 1999 The topics cover most aspects of theoretical computer science and combinatorics pertaining to computing In response to the call for papers 88 high quality extended abstracts were submitted internationally of which 46 were selected for presentation by the p gram committee Every submitted paper was reviewed by at least three program committee members Many of these papers represent reports on continuing search and it is expected that most of them will appear in a more polished and complete form in scienti c journals In addition to the regular papers this v ume contains abstracts of two invited plenary talks by Prabhakar Raghavan and Seinosuke Toda The conference also included a special talk by Kurt Mehlhorn on LEDA Library of E cient Data types and Algorithms The Hao Wang Award inaugurated at COCOON 97 is given to honor the paper judged by the program committee to have the greatest scienti c merit The recipients of the Hao Wang Award 1999 were Hiroshi Nagamochi and Toshio Ibaraki for their paper An Approximation for Finding a Smallest 2 Edge Connected Subgraph Containing a Speci ed Spanning Tree **KI-99: Advances in Artificial Intelligence**

Wolfram Burgard, Thomas Christaller, Armin B. Cremers, 1999-09-01 For many years Arti cial Intelligence technology has served in a great variety of successful applications AI research and researchers have contributed much to the vision of the so called Information Society As early as the 1980s some of us imagined distributed knowledge bases containing the explicable knowledge of a company or any other organization Today such systems are becoming reality In the process other technologies have had to be developed and AI technology has blended with them and companies are now sensitive to this topic The Internet and WWW have provided the global infrastructure while at the same time companies have become global in

nearly every aspect of enterprise This process has just started a little experience has been gained and therefore it is tempting to reflect and try to forecast what the next steps may be This has given us one of the two main topics of the 23rd Annual German Conference on Artificial Intelligence KI 99 held at the University of Bonn The Knowledge Society Two of our invited speakers Helmut Willke Bielefeld and Hans Peter Kriegel Munich dwell on different aspects with different perspectives Helmut Willke deals with the concept of virtual organizations while Hans Peter Kriegel applies data mining concepts to pattern recognition tasks The three application forums are also part of the Knowledge Society topic IT based innovation for environment and development Knowledge management in enterprises and

Knowledge management in village and city planning of the information society **Inductive Logic Programming**, 1996

Advanced Data Mining and Applications Longbing Cao, Yong Feng, Jiang Zhong, 2010-11-18 With the ever growing power of generating transmitting and collecting huge amounts of data information overload is now an imminent problem to mankind The overwhelming demand for information processing is not just about a better understanding of data but also a better usage of data in a timely fashion Data mining or knowledge discovery from databases is proposed to gain insight into aspects of data and to help people make informed sensible and better decisions At present growing attention has been paid to the study development and application of data mining As a result there is an urgent need for sophisticated techniques and tools that can handle new fields of data mining e.g. spatial data mining biomedical data mining and mining on high speed and time variant data streams The knowledge of data mining should also be expanded to new applications The 6th International Conference on Advanced Data Mining and Applications ADMA2010 aimed to bring together the experts on data mining throughout the world It provided a leading international forum for the dissemination of original research results in advanced data mining techniques applications algorithms software and systems and different applied disciplines The conference attracted 361 online submissions from 34 different countries and areas All full papers were peer reviewed by at least three members of the Program Committee composed of international experts in data mining fields A total number of 118 papers were accepted for the conference Amongst them 63 papers were selected as regular papers and 55 papers were selected as short papers

Formal Techniques in Real-Time and Fault-Tolerant Systems Mathai Joseph, 2003-07-31 This book constitutes the refereed proceedings of the 6th International Symposium on Formal Techniques in Real Time and Fault Tolerant Systems FTRTFT 2000 held in Pune India in September 2000 The 21 revised full papers presented together with three invited contributions were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on model checking fault tolerance scheduling validation verification logic and automata **Handbook of Philosophical**

Logic D.M. Gabbay, Franz Guenther, 2005-12-15 The first edition of the Handbook of Philosophical Logic four volumes was published in the period 1983 1989 and has proven to be an invaluable reference work to both students and researchers in formal philosophy language and logic The second edition of the Handbook is intended to comprise some 18 volumes and will

provide a very up to date authoritative in depth coverage of all major topics in philosophical logic and its applications in many cutting edge fields relating to computer science language argumentation etc The volumes will no longer be as topic oriented as with the first edition because of the way the subject has evolved over the last 15 years or so However the volumes will follow some natural groupings of chapters Audience Students and researchers whose work or interests involve

philosophical logic and its applications **Logic Program Synthesis and Transformation - Meta-Programming in Logic** Laurent Fribourg,Franco Turini,1994-11-30 This volume constitutes the combined proceedings of the 4th International Workshops on Logic Program Synthesis and Transformation LOPSTR 94 and on Meta Programming META 94 held jointly in Pisa Italy in June 1994 This book includes thoroughly revised versions of the best papers presented at both workshops The main topics addressed by the META papers are language extensions in support of meta logic semantics of meta logic implementation of meta logic features performance of meta logic and several applicational aspects The LOPSTR papers are devoted to unfolding folding partial deduction proofs as programs inductive logic programming automated program verification specification and programming methodologies **Methodologies for Intelligent Systems** Zbigniew W.

Ras,1994-09-28 This volume contains the revised versions of the papers presented at the Eighth International Symposium on Methodologies for Intelligent Systems ISMIS 94 held in Charlotte North Carolina USA in October 1994 Besides four invited contributions by renowned researchers on key topics there are 56 full papers carefully selected from more than 120 submissions The book presents the state of the art for methodologies for intelligent systems the papers are organized in sections on approximate reasoning evolutionary computation intelligent information systems knowledge representation methodologies learning and adaptive systems and logic for AI *The Cambridge Handbook of Computational Cognitive*

Sciences Ron Sun,2023-05-11 The Cambridge Handbook of Computational Cognitive Sciences is a comprehensive reference for this rapidly developing and highly interdisciplinary field Written with both newcomers and experts in mind it provides an accessible introduction of paradigms methodologies approaches and models with ample detail and illustrated by examples It should appeal to researchers and students working within the computational cognitive sciences as well as those working in adjacent fields including philosophy psychology linguistics anthropology education neuroscience artificial intelligence computer science and more **KI 2008: Advances in Artificial Intelligence** Andreas Dengel,Karsten Berns,Thomas

Breuel, Frank Bomarius, Thomas R. Roth-Berghofer,2008-09-24 KI 2008 was the 31st Annual German Conference on Artificial Intelligence held September 23-26 at the University of Kaiserslautern and the German Research Center for Artificial Intelligence DFKI GmbH in Kaiserslautern Germany The conference series started in 1975 with the German Workshop on AI GWAI which took place in Bonn and represents the first forum of its type for the German AI Community Over the years AI has become a major field in computer science in Germany involving a number of successful projects that received much international attention Today KI conferences are international forums where participants from academia and industry from all over the

world meet to exchange their recent research results and to discuss trends in the field. Since 1993 the meeting has been called the Annual German Conference on Artificial Intelligence designated by the German acronym KI. This volume contains the papers selected out of 77 submissions including a number of submissions from outside German speaking countries. In total 15 submissions (19%) were accepted for oral and 30 (39%) for poster presentation.

Oral presentations at the conference were in a single track. Because of this the choice of presentation form (oral or poster) was based on how well reviews indicated that the paper would fit into one or the other format. The proceedings allocate the same space to both types of papers. In addition we selected six papers that show high application potential (describing systems or prototypical implementations of innovative AI technologies). They are also included in this volume as two page extended abstracts.

This book delves into Logic Program Synthesis From Incomplete Information. Logic Program Synthesis From Incomplete Information is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Logic Program Synthesis From Incomplete Information, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Logic Program Synthesis From Incomplete Information
 - Chapter 2: Essential Elements of Logic Program Synthesis From Incomplete Information
 - Chapter 3: Logic Program Synthesis From Incomplete Information in Everyday Life
 - Chapter 4: Logic Program Synthesis From Incomplete Information in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Logic Program Synthesis From Incomplete Information. This chapter will explore what Logic Program Synthesis From Incomplete Information is, why Logic Program Synthesis From Incomplete Information is vital, and how to effectively learn about Logic Program Synthesis From Incomplete Information.
 3. In chapter 2, the author will delve into the foundational concepts of Logic Program Synthesis From Incomplete Information. The second chapter will elucidate the essential principles that need to be understood to grasp Logic Program Synthesis From Incomplete Information in its entirety.
 4. In chapter 3, this book will examine the practical applications of Logic Program Synthesis From Incomplete Information in daily life. This chapter will showcase real-world examples of how Logic Program Synthesis From Incomplete Information can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Logic Program Synthesis From Incomplete Information in specific contexts. This chapter will explore how Logic Program Synthesis From Incomplete Information is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Logic Program Synthesis From Incomplete Information. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Logic Program Synthesis From Incomplete Information.

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