Computational Logic in a Nutshell

We develop **automated reasoning techniques** for solving challenging computational problems in engineering and science.
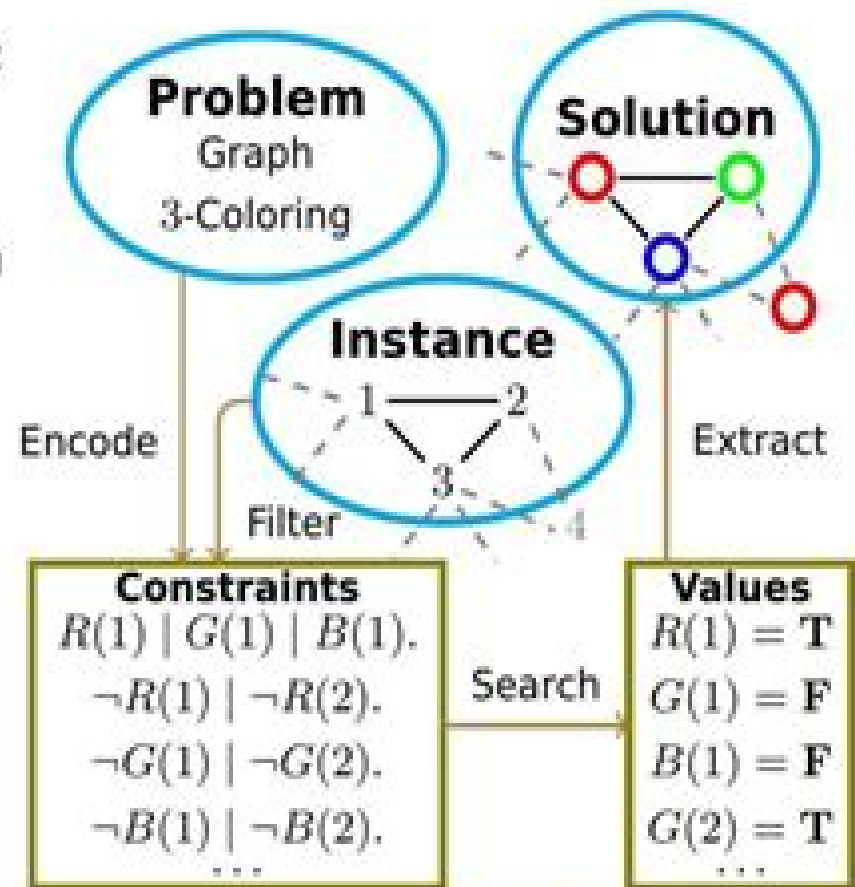
Constraint-Based Search & Optimization

Knowledge Representation & Reasoning

Solver Technology

Applications
— Configuration
— Planning
— Verification and Testing
Contact: Tomi Janhunen

A'' Aalto University

Department of Computer Science

Px A Computational Logic

Johannes Czermak,Klaus Puhl

Px A Computational Logic:

   PX, a Computational Logic Susumu Hayashi,Hiroshi Nakano,1987   **Computational Logic** Dov M. Gabbay,Jörg H. Siekmann,John Woods,2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning Calculemus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic   **Theory of Computing and Systems** Danny Dolev,Zvi Galil,Michael Rodeh,1992-05-06 ISTCS 92 the Israel Symposium on the Theory of Computing and Systems cameabout spontaneously as a result of informal interaction between a group of people who viewed the conference as an appropriate expression of Israeli strength in theoretical aspects of computing and systems The enthusiasm that the symposium created resulted in the submission of a large number of extremely high quality papers which led in turn to strict acceptance criteria This volume contains nineteen selected papers representing the cream of Israeli talent in the field on a variety of active and interesting topics in the theory of computing and systems   **ACM Transactions on Computational Logic** ,2010   **Mathematical Logic** Petio P. Petkov,2012-12-06 Heyting 88 Summer School and Conference on Mathematical Logic held September 13 23 1988 in Chaika Bulgaria was honourably dedicated to Arend Heyting s 90th anniversary It was organized by Sofia University Kliment Ohridski on the occasion of its centenary and by the Bulgarian Academy of Sciences with sponsorship of the Association for Symbolic Logic The Meeting gathered some 115 participants

from 19 countries The present volume consists of invited and selected papers Included are all the invited lectures submitted for publication and the 14 selected contributions chosen out of 56 submissions by the Selection Committee The selection was made on the basis of reports of PC members an average of 4 per sLlbmission All the papers are concentrated on the topics of the Meeting Recursion Theory Modal and Non classical Logics Intuitionism and Constructivism Related Applications to Computer and Other Sciences Life and Work of Arend Heyting I am pleased to thank all persons and institutions that contributed to the success of the Meeting sponsors Programme Committee members and additional referees the members of the Organizing Committee our secretaries K Lozanova and L Nikolova as well as K Angelov V Bozhichkova A Ditchev D Dobrev N Dimitrov R Draganova G Gargov N Georgieva M Janchev P Marinov S Nikolova S Radev I Soskov A Soskova and v Sotirov who helped in the organization Plenum Press and at last but not least all participants in the Meeting and contributors to this volume **Logical Aspects of Computational Linguistics. Celebrating 20 Years of LACL (1996–2016)** Maxime Amblard,Philippe de Groote,Sylvain Pogodalla,Christian Retoré,2016-11-21 Edited under the auspices of the Association of Logic Language andInformation FoLLI this book constitutes the refereed proceedings ofthe 20th anniversary of the International Conference on LogicalAspects of Computational Linguistics LACL 2016 held in LORIA Nancy France in December 2016 The 19 contributed papers presentedtogether with 4 invited papers and 6 abstracts were carefullyreviewed and selected from 38 submissions The focus of the conferenceis the use of type theoretic proof theoretic and model theoreticmethods for describing and formalising natural language syntax semantics and pragmatics as well as the implementation of thecorresponding tools *Functional and Logic Programming* ,1998 *Computational Logic in Multi-Agent Systems* Michael Fisher,Fariba Sadri,Michael Thielscher,2009-08-02 Multi Agent Systems are communities of problem solving entities that can exhibit varying degrees of intelligence They can perceive and react to their environment they can have individual or joint goals for which they can plan and execute actions Work on such systems integrates many technologies and concepts in artificial intelligence and other areas of computing as well as other disciplines The agent paradigm has become very popular and widely used in recent years due to its applicability to a large range of domains from search engines to educational aids to electronic commerce and trade e procurement recommendation systems and ambient intelligence to cite only some Computational logic provides a well defined general and rigorous framework for studying syntax semantics and procedures for various capabilities and functionalities of individual agents as well as interaction amongst agents in multi agent systems It also provides a well defined and rigorous framework for implementations envir ments tools and standards and for linking together specification and verification of properties of individual agents and multi agent systems **Type Theory and Functional Programming** Simon Thompson,1991 This book explores the role of Martin Lof s constructive type theory in computer programming The main focus of the book is how the theory can be successfully applied in practice Introductory sections provide the necessary background in logic lambda calculus and

constructive mathematics and exercises and chapter summaries are included to reinforce understanding **Mathematical Logic and Computation** Jeremy Avigad,2022-11-24 A thorough introduction to the fundamental methods and results in mathematical logic and its foundational role in computer science Philosophie der Mathematik Johannes Czermak,Klaus Puhl,1993 Logic and Computer Science Piergiorgio Odifreddi,1990 The application of mathematical logic to computer science continues to be of major importance in the development of more advanced systems In this book a combination of survey chapters and applications work is presented particularly concentrating on lamda calculus typed functional programming and theorem provers **Logical Foundations of Functional Programming** Gérard Huet,1990 Looks at the new partnerships between public officials and private entrepreneurs that have helped revitalize the downtown areas of many American cities and presents studies of big city malls in Boston St Paul Seattle and San Diego Formal Description of Programming Concepts--III Martin Wirsing,1987 The Formal Description of Programming Concepts is the subject of a series of conferences organised by the IFIP Working Group 2 2 under the auspices of the Technical Committee 2 Programming of IFIP This volume contains the 17 papers which were selected by the program committee As with the previous working conferences the questions and answers following each presentation of a paper are reported in an ad verbatum style in order to preserve the liveliness and outspokenness of the discussions *A Computational Logic* Robert S. Boyer,J Strother Moore,1979 A sketch of the theory and two simple examples A precise definition of the theory The correctness of a tautology checker An overview of how we prove theorems Using type information to simplify formulas Using axioms and lemmas as rewrite rules Using definitions Rewriting terms and simplifying clauses Eliminating destructors Using equalities Generalization Eliminating irrelevance Induction and the analysis of recursive definitions Formulating an induction scheme for a conjecture Illustrations of our techniques via elementary number theory The correctness of a simple optimizing expression compiler The correctness of a fast string searching algorithm The unique prime factorization theorem *Fuji International Symposium on Functional and Logic Programming* ,1998 *Questions in Dynamic Semantics* Maria Aloni,Alastair Butler,Paul Dekker,2007-03-20 The study of questions and answers is challenging for various fields of theoretical linguistics logic analytical philosophy and more recently computer science Research into questions and answers addresses old and raises new and important questions about the semantics pragmatics interface and about the dynamics of interpretation This book brings together current work on the topic as it has been developed in Amsterdam and congenial academic sites over the past 15 years Amsterdam is one of the breeding grounds for the formal study of logic and language for dynamic semantics and for the study of questions and answers It covers the major issues of pragmatic semantic investigation including logical relations context dependence information structure and more It illustrates how semantic pragmatic stance can be used for problems in other areas of linguistic theorising **Bibliographic Guide to Computer Science** ,1990 Computer Science Logic Hans Kleine Büning,1996-06-05 The volume contains papers presented at the

final conference of the DFG Research Program in Boundary Element Methods The contributions deal with and offer solutions for problems arising in the application of BEM to engineering tasks **Categories, Types, and Structures** Andrea Asperti,Giuseppe Longo,1991 Category theory is a mathematical subject whose importance in several areas of computer science most notably the semantics of programming languages and the design of programmes using abstract data types is widely acknowledged This book introduces category theory at a level appropriate for computer scientists and provides practical examples in the context of programming language design

Enjoying the Beat of Expression: An Mental Symphony within **Px A Computational Logic**

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