T. Gergely L. Úry

First-Order Programming Theories

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First Order Programming Theories

Heinz-Dieter Ebbinghaus

First Order Programming Theories:

<u>First-Order Programming Theories</u> Tamas Gergely,Laszlo Ury,2012-12-06 This work presents a purely classical first order logical approach to the field of study in theoretical computer science sometimes referred to as the theory of programs or programming theory This field essentially attempts to provide a precise mathematical basis for the common activities involved in reasoning about computer programs and programming languages and it also attempts to find practical applications in the areas of program specification verification and programming language design Many different approaches with different mathematical frameworks have been proposed as a basis for programming theory They differ in the mathe matical machinery they use to define and investigate programs and program properties and they also differ in the concepts they deal with to understand the programming paradigm Different approaches use different tools and viewpoints to characterize the data environment of programs Most of the approaches are related to mathe matical logic and they provide their own logic These logics however are very eclectic since they use special entities to reflect a special world of programs and also they are usually incomparable with each other This Babel s mess irritated us and we decided to peel off the eclectic com ponents and try to answer all the questions by using classical first order logic   *First-order Programming Theories* Tamás Gergely,László Úry,1991 This book proposes a purely classical first order logical approach to the theory of programming The authors leading members of the famous Hungarian school use this approach to give a unified and systematic presentation of the theory This approach provides formal methods and tools for reasoning about computer programs and programming languages by allowing the syntactic and semantic characterization of programs the description of program properties and ways to check whether a given program satisfies certain properties The basic methods are logical extension inductive definition and their combination all of which admit an appropriate first order representation of data and time The framework proposed by the authors allows the investigation and development of different programming theories and logics from a unified point of view Dynamic and temporal logics for example are investigated and compared with respect to their expressive and proof theoretic powers The book should appeal to both theoretical researchers and students For researchers in computer science the book provides a coherent presentation of a new approach which permits the solution of various problems in programming theory in a unified manner by the use of first order logical tools The book may serve as a basis for graduate courses in programming theory and logic as it covers all important questions arising between the theory of computation and formal descriptive languages and presents an appropriate derivation system   *International Symposium on Programming* B. Robinet,1980-04   **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 *Basic Mathematical Programming Theory* Giorgio Giorgi,Bienvenido Jiménez,Vicente Novo,2023-07-18 The subject of static optimization also called mathematical programming is one of the most important and widespread branches of modern mathematics serving as a cornerstone of such scientific subjects as economic analysis operations research management sciences engineering chemistry physics statistics computer science biology and social sciences This book presents a unified progressive treatment of the basic mathematical tools of mathematical programming theory The authors expose said tools along with results concerning the most common mathematical programming problems formulated in a finite dimensional setting forming the basis for further study of the basic questions on the various algorithmic methods and the most important particular applications of mathematical programming problems This book assumes no previous experience in optimization theory and the treatment of the various topics is largely self contained Prerequisites are the basic tools of differential calculus for functions of several variables the basic notions of topology and of linear algebra and the basic mathematical notions and theoretical background used in analyzing optimization problems The book is aimed at both undergraduate and postgraduate students interested in mathematical programming problems but also those professionals who use optimization methods and wish to learn the more theoretical aspects of these questions **Algebraic and Logic Programming** Helene Kirchner,Giorgio Levi,1992-08-19 This volume contains the proceedings of the Third International Conference on Algebraic and Logic Programming held in Pisa Italy September 2 4 1992 Like the two previous conferences in Germany in 1988 and France in 1990 the third conference aims at strengthening the connections betweenalgebraic techniques and logic programming On the one hand logic programming has been very successful during the last decades and more and more systems compete in enhancing its expressive power On the other hand concepts like functions equality theory and modularity are particularly well handled in an algebraic framework Common foundations of both approaches have recently been developed and this conference is a forum for people from both areas to exchange ideas results and experiences The book covers the following topics semantics ofalgebraic and logic programming integration of functional and logic programming term rewriting narrowing and resolution constraintlogic programming and theorem proving concurrent features in algebraic and logic programming languages and implementation issues **The Complexity Theory Companion** Lane A. Hemaspaandra,Mitsunori Ogihara,2013-03-14 The Complexity Theory Companion is an accessible algorithmically oriented research centered up to date guide to some of the most interesting techniques of complexity theory The book s thesis is that simple algorithms are at the heart of complexity theory From the tree pruning and interval pruning algorithms that shape the first chapter to the query simulation procedures that dominate the last chapter the central proof methods of the book are algorithmic And to more clearly highlight the role of algorithmic techniques in

complexity theory the book is unlike other texts on complexity organized by technique rather than by topic Each chapter of this book focuses on one technique what it is and what results and applications it yields This textbook was developed at the University of Rochester in courses given to graduate students and advanced undergraduates Researchers also will find this book a valuable source of reference due to the comprehensive bibliography of close to five hundred entries the thirty five page subject index and the appendices giving overviews of complexity classes and reductions *Logic Colloquium '87* Heinz-Dieter Ebbinghaus,1989 Fourteen papers presented at the 1987 European Summer Meeting of the Association for Symbolic Logic are collected in this volume The main areas covered by the conference were Logic Set Theory Recursion Theory Model Theory Logic for Computer Science and Semantics of Natural Languages **Logic Colloquium '87** H.-D. Ebbinghaus,J. Fernandez-Prida,M. Garrido,D. Lascar,M. Rodriguez Artalejo,2000-04-01 Fourteen papers presented at the 1987 European Summer Meeting of the Association for Symbolic Logic are collected in this volume The main areas covered by the conference were Logic Set Theory Recursion Theory Model Theory Logic for Computer Science and Semantics of Natural Languages **The Theory of General Economic Equilibrium** Andreu Mas-Colell,1985 This book brings together the author s pioneering work written over the last twenty years on the use of differential methods in general equilibrium theory **CONCUR '96: Concurrency Theory** Ugo Montanari,Vladimiro Sassone,1996-08-07 This book constitutes the refereed proceedings of the 8th International Conference on Concurrency Theory CONCUR 97 held in Warsaw Poland in July 1997 The 24 revised full papers presented were selected by the program committee for inclusion in the volume from a total of 41 high quality submissions The volume covers all current topics in the science of concurrency theory and its applications such as reactive systems hybrid systems model checking partial orders state charts program logic calculi infinite state systems verification and others **Constraints in Computational Logics. Theory and Applications** Hubert Comon,ESPRIT CCL Working Group,2001-04-18 Constraints and constraint solving an introduction Jean Pierre Jouannaud Constraint solving on terms Hubert Comon Combining constraint solving Franz Baader Constraints and theorem proving Harald Ganzinger Functional and constraint logic programming Mario Rodr guez Artalejo Building industrial applications with constraint programming Helmut Simonis **Computer Aided Systems Theory - EUROCAST '95** Franz Pichler,Roberto Moreno-Diaz,Rudolf F. Albrecht,1996-01-24 This book presents a collection of revised refereed papers selected from the contributions to the Fifth International Workshop on Computer Aided Systems Theory EUROCAST 95 held in Innsbruck Austria in May 1995 The 42 full papers contained have been contributed by CAST theoreticians tool makers designers and appliers and reflect the full spectrum of activities in the area The papers are organized in sections on systems theory design environments complex systems design and specific applications *Partial Evaluation: Practice and Theory* John Hatcliff,Torben Mogensen,Peter Thiemann,2007-07-16 As the complexity of software increases researchers and practicioners continue to seek better techniques for engineering the construction of evolution of software Partial evaluation

is an attractive technology for modern software construction since it provides automatic tools for software specialization and is based on rigorous semantic foundations This book is based on a school held at DIKU Copenhagen Denmark in summer 1998 during which leading researchers summarized the state of the art in partial evaluation The lectures presented survey the foundations of partial evaluation in a clear and rigorous manner and practically introduce several existing partial evaluators with numerous examples The second part of the book is devoted to more sophisticated theoretical aspects advances systems and applications and highlights open problems and challenges The book is ideally suited for advanced courses and for self study   Algorithms and Theory of Computation Handbook - 2 Volume Set Mikhail J. Atallah,Marina Blanton,2022-05-29 Algorithms and Theory of Computation Handbook Second Edition in a two volume set provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems New to the Second Edition Along with updating and revising many of the existing chapters this second edition contains more than 20 new chapters This edition now covers external memory parameterized self stabilizing and pricing algorithms as well as the theories of algorithmic coding privacy and anonymity databases computational games and communication networks It also discusses computational topology computational number theory natural language processing and grid computing and explores applications in intensity modulated radiation therapy voting DNA research systems biology and financial derivatives This best selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics The expert contributors clearly define the terminology present basic results and techniques and offer a number of current references to the in depth literature They also provide a glimpse of the major research issues concerning the relevant topics

Algorithmic Learning Theory Ming Li,1997-09-17 This book constitutes the strictly refereed post workshop proceedings of the Second International Workshop on Database Issues for Data Visualization held in conjunction with the IEEE Visualization 95 conference in Atlanta Georgia in October 1995 Besides 13 revised full papers the book presents three workshop subgroup reports summarizing the contents of the book as well as the state of the art in the areas of scientific data modelling supporting interactive database exploration and visualization related metadata The volume provides a snapshop of current research in the area and surveys the problems that must be addressed now and in the future towards the integration of database management systems and data visualization   **Inductive Logic Programming** Stefan Kramer,Bernhard Pfahringer,2005-08-29 1 Change is inevitable Embracing this quote we have tried to carefully exp iment with the format of this conference the 15th International Conference on Inductive Logic Programming hopefully making it even better than it already was But it will be up to you the inquisitive reader of this book to judge our success The major changes comprised broadening the scope of the conference to include more diverse forms of non propositional learning to once again have tutorials on exciting new areas and for the rst time to also have a discovery challenge as a platform for collaborative work

This year the conference was co located with ICML 2005 the 22nd Inter tional Conference on Machine Learning and also in close proximity to IJCAI 2005 the 19th International Joint Conference on Arti cial Intelligence location can be tricky but we greatly bene ted from the local support provided by Codrina Lauth Michael May and others We were also able to invite all ILP and ICML participants to shared events including a poster session an invited talk and a tutorial about the exciting new area of statistical relational lea ing Two more invited talks were exclusively given to ILP participants and were presented as a kind of stock taking ttingly so for the 15th event in a series but also tried to provide a recipe for future endeavours

Recent Trends In Optimization Theory And Applications Ravi P Agarwal,1995-11-07 World Scientific Series in Applicable Analysis WSSIAA aims at reporting new developments of high mathematical standard and current interest Each volume in the series shall be devoted to the mathematical analysis that has been applied or potentially applicable to the solutions of scientific engineering and social problems This volume contains 30 research articles on the theory of optimization and its applications by the leading scientists in the field It is hoped that the material in the present volume will open new vistas in research Contributors B D O Anderson M Bertaja O J Boxma O Burdakov A Cantoni D J Clements B D Craven J B Cruz Jr P Diamond S V Drakunov Y G Evtushenko N M Filatov I Galligani J C Geromel F Giannessi M J Grimble G O Guardabassi D W Gu C H Houpis D G Hull C Itiki X Jian M A Johnson R E Kalaba J C Kalkkuhl M R Katebi T J Kim P Kloeden T Kobylarz A J Laub C S Lee G Leitmann B G Liu J Liu Z Q Luo K A Lurie P Maponi J B Matson A Mess G Pacelli M Pachter I Postlethwaite T Rapcsak M C Recchioni Y Sakawa S V Savastyuk K Schittkowski Y Shi M A Sikora D D Siljak K L Teo C Tovey P Tseng F E Udwadia H Unbehauen A Vladimirov B Vo J F Whidborne R Xu P L Yu V G Zhadan F Zirilli **Adapting Proofs-as-Programs** Iman Poernomo,John N. Crossley,Martin Wirsing,2007-04-27 This monograph details several important advances in the direction of a practical proofs as programs paradigm which constitutes a set of approaches to developing programs from proofs in constructive logic with applications to industrial scale complex software engineering problems One of the books central themes is a general abstract framework for developing new systems of programs synthesis by adapting proofs as programs to new contexts **Computational Intelligence. Theory and Applications** Bernd Reusch,2003-06-30 Ten years of Fuzzy Days in Dortmund What started as a relatively small workshop in 1991 has now become one of the best known smaller conferences on Computational Intelligence in the world It fact it was to my best knowledge the rst conference to use this term in 1994 although I confess that another larger conference was announced rst and the trade mark Computational Intelligence was not coined in Dortmund I believe that the success of this conference is grounded on the quality of its reviewedandinvitedpapersaswellasitsgoodorganization Fromthebeginning we have sent every paper anonymously to ve referees and we have always accepted only around 50% of the papers sent in This year it was a little less than that I would like to thank everybody who helped us by considering Dortmund s Fuzzy Days as the conference at which to appear I know that among the stracts not accepted there were some quite good ones but we were restricted to a xed number

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