Zoltán Fülöp
Heiko Vogler

Syntax-Directed Semantics

Formal Models Based on Tree Transducers

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Syntaxdirected Semantics Formal Models Based On Tree Transducers

Hartmut Ehrig,Gregor Engels,Hans-Jörg Kreowski,Grzegorz Rozenberg

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Syntax-Directed Semantics Zoltan Fülöp,Heiko Vogler,2012-12-06 The subject of this book is the investigation of tree transducers Tree trans ducers were introduced in theoretical computer science in order to study the general properties of formal models which give semantics to context free languages in a syntax directed way Such formal models include attribute grammars with synthesized attributes only denotational semantics and at tribute grammars with synthesized and inherited attributes However these formal models share certain constituents which are irrelevant in the investi gation of the general properties considered in this book In particular we can abstract a from derivation trees of the context free grammar and take trees over some ranked alphabet b from the semantic domain of the model and use the initial term algebra instead and finally c from the machine oriented computation paradigm which maintains the incarnation information of recursive function calls and take a term rewriting semantics instead Ap plying these three abstraction steps to attribute grammars with synthesized attributes only to denotational semantics and to attribute grammars we obtain the concepts of top down tree transducer macro tree transducer and attributed tree transducer respectively The macro attributed tree transducer combines the concepts of the macro tree transducer and the attributed tree transducer This book explores the general properties of these four types of tree transducers **Implementation and Application of Automata** Michal Hospodár,Galina Jirásková,2019-07-08 This book constitutes the proceedings of the 24th International Conference on Implementation and Application of Automata CIAA 2019 held in Kosice Slovakia in July 2019 The 17 regular papers presented together with 2 invited papers in this book were carefully reviewed and selected from 29 initial submissions The topics of the papers include complexity of languages and language operations regular expressions picture languages jumping automata input driven and two dimensional automata tree languages and tree transducers architecture of oritatami systems intruder deduction problem context sensitive ash codes rational relations and algorithms for manipulating sequence binary decision diagrams

Developments in Language Theory Marie-Pierre Beal,Olivier Carton,2013-06-12 This book constitutes the proceedings of the 17th International Conference on Developments in Language Theory DLT 2013 held in Marne la Vall e France in June 2013 The 34 full papers presented in this volume were carefully reviewed and selected from 63 submissions The scope of the conference includes among others the following topics and areas combinatorial and algebraic properties of words and languages grammars acceptors and transducers for strings trees graphs arrays algebraic theories for automata and languages codes efficient text algorithms symbolic dynamics decision problems relationships to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency cellular automata bio inspired computing and quantum computing *Implementation and Applications of Automata* Oscar H. Ibarra,Bala Ravikumar,2008-07-23 The 13th International Conference on Implementation and Application of tomata CIAA 2008 was held at San Francisco State University San Francisco July 21 24 2008 This volume of Lecture Notes in Computer Science contains

the papers that were presented at CIAA 2008 as well as the abstracts of the poster papers that were displayed during the conference The volume also includes the per extended abstract of the four invited talks presented by Markus Holzer Kai Salomaa Mihalis Yannakakis and Hsu Chun Yen The 24 regular papers were selected from 40 submissions covering various topics in the theory implementation and applications of automata and related structures Each submitted paper was reviewed by at least three ProgramC mittee members with the assistance of external referees The authors of the papers and posters presented in this volume come from the following co tries Australia Belgium Canada China Columbia Czech Republic France Germany Hungary Italy Japan The Netherlands Poland Portugal Romania Russia Spain Sweden Taiwan United Arab Emerates and USA We wish to thank all who made this conference possible the authors for s mittingpapers theProgramCommitteemembersandexternalreferees listedin the proceedings for their excellent work and the four invited speakers Finally we wish to express our sincere appreciation to the sponsors local organizers and the editors of the Lecture Notes in Computer Science seriesand Springer in particular Alfred Hofmann for their help in publishing this volume in a timely manner *Logic Based Program Synthesis and Transformation* Alberto Pettorossi,2003-08-03 This book presents revised full papers from the 10th International Workshop on Logic Based Program Synthesis and Transformation LOPSTR 2000 held in London UK in July 2000 as part of the International Conference on Computational Logic The 10 revised full papers presented have gone through two rounds of reviewing selection and revision The book is divided in topical sections on synthesis transformation analysis specialization and abstract interpretation **Advances in Computing Science - ASIAN 2003, Programming Languages and Distributed Computation** Vijay A. Saraswat,2003-12-15 This book constitutes the refereed proceedings of the 8th Asian Computing Science Conference ASIAN 2003 held in Mumbai India in December 2003 The 16 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 53 submissions Among the topics addressed are type theory for operating systems protection self configurable servers network services predicate detection hierarchical specification proof theory electronic auctions secure mobile computing programming casculi access control middleware program logic real time systems and probabilistic distributed systems **STACS 2000** Horst Reichel,Sophie Tison,2007-08-03 This book constitutes the refereed proceedings of the 17th Annual Symposium on Theoretical Aspects of Computer Science STACS 2000 held in Lille France in February 2000 The 51 revised full papers presented together with the three invited papers were carefully reviewed and selected from a total of 146 submissions on the basis of some 700 reviewers reports The papers address fundamental issues from all current areas of theoretical computer science including algorithms data structures automata formal languages complexity verification logic cryptography graph theory optimization etc *Semantic Integration of Heterogeneous Software Specifications* Martin Große-Rhode,2013-03-09 In a model based development of software systems different views on a system are elaborated using appropriate modeling languages and techniques Because of the unavoidable heterogeneity of the viewpoint models a

semantic integration is required to establish the correspondences of the models and allow checking of their relative consistency The integration approach introduced in this book is based on a common semantic domain of abstract systems their composition and development Its applicability is shown through semantic interpretations and compositional comparisons of different specification approaches These range from formal specification techniques like process calculi Petri nets and rule based formalisms to semiformal software modeling languages like those in the UML family   *Logic and Its Applications* Mohua Banerjee,Krishna S.,2014-11-22 This book collects the refereed proceedings of the 6th Indian Conference on Logic and Its Applications ICLA 2015 held in Mumbai India in January 2015 The volume contains 13 full revised papers along with 3 invited talks presented at the conference The papers were selected after rigorous review from 23 submissions They cover topics related to pure and applied formal logic foundations and philosophy of mathematics and the sciences set theory model theory proof theory areas of theoretical computer science artificial intelligence systems of logic in the Indian tradition and other disciplines which are of direct interest to mathematical and philosophical logic   *Rewriting Techniques and Applications* Sophie Tison,2002-07-10 This book constitutes the refereed proceedings of the 13th International Conference on Rewriting Techniques and Applications RTA 2002 held in Copenhagen Denmark in July 2002 The 20 regular papers two application papers and four system descriptions presented together with three invited contributions were carefully reviewed and selected from 49 submissions All current aspects of rewriting are addressed   **Mathematical Foundations of Computer Science 2002** Krzystof Diks,Wojciech Rytter,2007-10-23 This book constitutes the refereed proceedings of the 27th International Symposium on Mathematical Foundations of Computer Science MFCS 2002 held in Warsaw Poland in August 2002 The 48 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 108 submissions All relevant aspects of theoretical computer science are addressed ranging from discrete mathematics combinatorial optimization graph theory algorithms and complexity to programming theory formal methods and mathematical logic   **Computer Aided Verification** Natasha Sharygina,Helmut Veith,2013-07-11 This book constitutes the thoroughly refereed proceedings of the 25th International Conference on Computer Aided Verification CAV 2013 held in St Petersburg Russia in July 2013 The 54 regular and 16 tool papers presented were carefully selected from 209 submissions The papers are organized in topical sections on biology concurrency hardware hybrid systems interpolation loops and termination new domains probability and statistics SAT and SMZ security shape analysis synthesis and time   *Developments in Language Theory* Yuan Gao,Hanlin Lu,Shinnosuke Seki,Sheng Yu,2010-07-30 This book constitutes the proceedings of the 14th International Conference on Developments in Language Theory DLT 2010 held in London Ontario Canada in August 2010 The 32 regular papers presented were carefully reviewed and selected from numerous submissions The volume also contains the papers or abstracts of 6 invited speakers as well as a 2 page abstract for each of the 6 poster papers The topics addressed are formal languages automata theory computability complexity logic petri nets and related

areas   **Handbook of Weighted Automata** Manfred Droste,Werner Kuich,Heiko Vogler,2009-09-18 The purpose of this Handbook is to highlight both theory and applications of weighted automata Weighted finite automata are classical nondeterministic finite automata in which the transitions carry weights These weights may model e g the cost involved when executing a transition the amount of resources or time needed for this or the probability or reliability of its successful execution The behavior of weighted finite automata can then be considered as the function suitably defined associating with each word the weight of its execution Clearly weights can also be added to classical automata with infinite state sets like pushdown automata this extension constitutes the general concept of weighted automata To illustrate the diversity of weighted automata let us consider the following scenarios Assume that a quantitative system is modeled by a classical automaton in which the transitions carry as weights the amount of resources needed for their execution Then the amount of resources needed for a path in this weighted automaton is obtained simply as the sum of the weights of its transitions Given a word we might be interested in the minimal amount of resources needed for its execution i e for the successful paths realizing the given word In this example we could also replace the resources by profit and then be interested in the maximal profit realized correspondingly by a given word   *Language and Automata Theory and Applications* Adrian Horia Dediu,Armand Mihai Ionescu,Carlos Martin-Vide,2009-03-31 This book constitutes the refereed proceedings of the Third International Conference on Language and Automata Theory and Applications LATA 2009 held in Tarragona Spain in April 2009 The 58 revised full papers presented together with 3 invited lectures and two tutorials were carefully reviewed and selected from 121 submissions The papers address all the various issues related to automata theory and formal languages   *Algebraic Informatics* Symeon Bozapalidis,2007-12-14 This book constitutes the refereed proceedings of the Second International Conference on Algebraic Informatics CAI 2007 held in Thessaloniki Greece in May 2007 The 10 revised full papers presented together with 9 invited papers were carefully reviewed and selected from 29 submissions The papers cover topics such as algebraic semantics on graphs and trees formal power series syntactic objects algebraic picture processing infinite computation acceptors and transducers for strings trees graphs arrays etc and decision problems   **Developments in Language Theory** Werner Kuich,Grzegorz Rozenberg,Arto Salomaa,2003-07-31 This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on Developments in Language Theory DLT 2001 held in Vienna Austria in July 2001 The 24 revised full papers presented together with 10 revised invited papers were carefully selected during two rounds of reviewing and revision from a total of 64 papers submitted Among the topics covered are grammars and acceptors efficient algorithms for languages combinatorial and algebraic properties decision problems relations to complexity theory logic picture description and analysis DNA computing cryptography and concurrency   **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 system deductive methods program certification debugging techniques program transformation optimization hybrid and cyber physical systems **Theory and Application of Graph Transformations** Hartmut Ehrig,Gregor Engels,Hans-Jörg Kreowski,Grzegorz Rozenberg,2004-02-02 Theareaofgraphtransformationoriginatedinthelate1960sunderthename graph grammars the main motivation came from practical considerations concerning pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph transformation has grown impressively The areas include software speci cation and development VLSI layout schemes database design modeling of concurrent systems m sively parallel computer architectures logic programming computer animation developmentalbiology musiccomposition distributedsystems speci cationl guages software and web engineering and visual languages As a matter of fact graph transformation is now accepted as a fundamental computation paradigm where computation includes speci cation programming and implementation Over the last three decades the area of graph transfor tion has developed at a steady pace into a theoretically attractive research eld important for applications Thisvolume consistsofpapersselectedfromcontributionsto the Sixth Int national Workshop on Theory and Applications of Graph Transformation that took place in Paderborn Germany November 16 20 1998 The papers und went an additional refereeing process which yielded 33 papers presented here out of 55 papers presented at the workshop This collection of papers provides a very broad snapshot of the state of the art of the whole eld today They are grouped into nine sections representing most active research areas Theworkshopwasthe sixth in a seriesof internationalworkshopswhich take place every four years Previous workshops were called Graph Grammars and Their Application to Computer Science The new name of the Sixth Workshop re ectsmoreaccuratelythecurrentsituation whereboththeoryandapplication play an equally central role *Fundamentals of Computation Theory* Henning Fernau,Klaus Jansen,2023-09-21 This book constitutes the proceedings of the 24th International Symposium on Fundamentals of Computation Theory FCT 2023 held in Trier Germany in September 2023 The __ full papers included in this volume were carefully reviewed and selected from __ submissions In addition the book contains ___ invited talks The papers cover topics of all aspects of theoretical computer science in particular algorithms complexity formal and logical methods

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