



WRTP | BIG STEP IMPACT REPORT 2023

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Big Step

Hans Hüttel



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Programming Languages and Systems Matthias Felleisen, Philippa Gardner, 2013-03-02 This book constitutes the refereed proceedings of the 22nd European Symposium on Programming ESOP 2013 held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2013 which took place in Rome Italy in March 2013 The 31 papers presented together with a full length invited talk were carefully reviewed and selected from 120 full submissions The contributions have been organized according to ten topical sections on programming techniques programming tools separation logic gradual typing shared memory concurrency and verification process calculi taming concurrency model checking and verification weak memory concurrency and verification and types inference and analysis

Programming Languages and Systems

Peter Thiemann, 2016-03-21 This book constitutes the proceedings of the 25th European Symposium on Programming ESOP 2016 which took place in Eindhoven The Netherlands in April 2016 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2016 The 29 papers presented in this volume were carefully reviewed and selected from 98 submissions Being devoted to fundamental issues in the specification design analysis and implementation of programming languages and systems ESOP features contributions on all aspects of programming language research theoretical and or practical advances

Understanding Computation Tom Stuart, 2013-05-15 Finally you can learn computation theory and programming language design in an engaging practical way Understanding Computation explains theoretical computer science in a context you ll recognize helping you appreciate why these ideas matter and how they can inform your day to day programming Rather than use mathematical notation or an unfamiliar academic programming language like Haskell or Lisp this book uses Ruby in a reductionist manner to present formal semantics automata theory and functional programming with the lambda calculus It s ideal for programmers versed in modern languages with little or no formal training in computer science Understand fundamental computing concepts such as Turing completeness in languages Discover how programs use dynamic semantics to communicate ideas to machines Explore what a computer can do when reduced to its bare essentials Learn how universal Turing machines led to today s general purpose computers Perform complex calculations using simple languages and cellular automata Determine which programming language features are essential for computation Examine how halting and self referencing make some computing problems unsolvable Analyze programs by using abstract interpretation and type systems

Fundamental Approaches to Software Engineering Dimitra Giannakopoulou, Fernando Orejas, 2011-03-14 This book constitutes the refereed proceedings of the 14th International Conference on Fundamental Approaches to Software Engineering FASE 2011 held in Saarbrücken Germany March 26 April 3 2011 as part of ETAPS 2011 the European Joint Conferences on Theory and Practice of Software The 29 revised full papers presented together with one full length invited talk were carefully reviewed and selected from 99 full paper submissions The papers are organized in topical sections on verification specification and modeling reachability and model checking model driven engineering

software development for QoS testing theory and new trends testing in practice code development and analysis and empirical studies

Programming Languages and Systems Peter Müller, 2020-04-17 This open access book constitutes the proceedings of the 29th European Symposium on Programming ESOP 2020 which was planned to take place in Dublin Ireland in April 2020 as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2020 The actual ETAPS 2020 meeting was postponed due to the Corona pandemic The papers deal with fundamental issues in the specification design analysis and implementation of programming languages and systems

Software Systems Safety O. Grumberg, H. Seidl, M. Irlbeck, 2014-05-30 Until quite recently the correctness and security of software systems was a largely theoretical problem relevant only for a small group of computer specialists Today it is a fundamental problem for society at large with security breaches in banking software malware attacks and bugs in programs affecting millions of people and making the headlines almost daily The computer science community is developing verification and synthesis tools which will mechanize ever more tasks in the design of secure programs This book presents the papers delivered at the NATO Advanced Study Institute ASI Summer School Marktoberdorf 2013 Software Systems Safety The participants represented research groups from both industry and academia and the subjects covered included software model checking via systematic testing program synthesis E voting systems probabilistic model checking in biology infinite state model checking Boolean satisfiability interactive proof and software security by information flow control The Marktoberdorf Summer School is one of the most renowned international computer science summer schools and this book with its detailed overview of current research results with special emphasis on the solving of software systems security problems will be of interest to all those whose work involves systems security

Computer Aided Verification Aarti Gupta, Sharad Malik, 2008-07-05 This book constitutes the refereed proceedings of the 20th International Conference on Computer Aided Verification CAV 2008 held in Princeton NJ USA in July 2008 The 33 revised full papers presented together with 14 tool papers and 2 invited papers and 4 invited tutorials were carefully reviewed and selected from 104 regular paper and 27 tool paper submissions The papers are organized in topical sections on concurrency memory consistency abstraction refinement hybrid systems dynamic verification modeling and specification formalisms decision procedures program verification program and shape analysis security and program analysis hardware verification model checking space efficient algorithms and model checking

Programming Language Foundations Aaron Stump, 2013-09-23 Programming Language Foundations is a concise text that covers a wide range of topics in the mathematical semantics of programming languages for readers without prior advanced background in programming languages theory The goal of the book is to provide rigorous but accessible coverage of essential topics in the theory of programming languages Stump's Programming Language Foundations is intended primarily for a graduate level course in programming languages theory which is standard in graduate level CS curricula It may also be used in undergraduate programming theory courses but ONLY where students have a strong mathematical preparation

Programming Languages and Systems Peter Sestoft, 2006-03-29 ETAPS 2006 was the ninth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised the conferences CC, ESOP, FASE, FOSSACS, TACAS, 18 satellite workshops, AC, CAT, AVIS, CMCS, COCV, DCC, EAAI, FESCA, FRCSS, GT, VMT, LDFA, MBT, QAPL, SC, SLAP, SPIN, TERMGRAPH, WITS, and WRLA, two tutorials, and seven invited lectures, not including those that were specific to the satellite events. We received over 550 submissions to the conferences this year, giving an overall acceptance rate of 23%, with acceptance rates below 30% for each conference. Congratulations to all the authors who made it to the final programme. I hope that most of the other authors still found a way of participating in this exciting event, and I hope you will continue submitting. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis, and improvement. The languages, methodologies, and tools which support these activities are all well within its scope. Different blends of theory and practice are represented, with an inclination towards theory, with a practical motivation on the one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

Transitions and Trees Hans Hüttel, 2010-04-29 Structural operational semantics is a simple yet powerful mathematical theory for describing the behaviour of programs in an implementation independent manner. This book provides a self-contained introduction to structural operational semantics, featuring semantic definitions using big step and small step semantics of many standard programming language constructs, including control structures, structured declarations, and objects, parameter mechanisms, and procedural abstraction, concurrency, nondeterminism, and the features of functional programming languages. Along the way, the text introduces and applies the relevant proof techniques, including forms of induction and notions of semantic equivalence, including bisimilarity. Thoroughly class tested, this book has evolved from lecture notes used by the author over a 10 year period at Aalborg University to teach undergraduate and graduate students. The result is a thorough introduction that makes the subject clear to students and computing professionals without sacrificing its rigour. No experience with any specific programming language is required.

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