



Conference Record  
of

**POPL<sup>TM</sup> '98: The 25TH  
ACM SIGPLAN-SIGACT**

**Symposium on  
Principles of Programming Languages<sup>TM</sup>**

**Papers Presented at the Symposium**

**San Diego, California  
19-21 January 1998**

**Sponsored by the  
Association for Computing Machinery**

**Special Interest Group on Algorithms and Computation Theory (SIGACT)  
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# Popl 98 Annual Symposium On Principles Of Programming Languages

**Riccardo Focardi, Roberto Gorrieri**



## **Popl 98 Annual Symposium On Principles Of Programming Languages:**

Conference Record of POPL '98 Symposium on Principles of Programming Languages (25, 1998, San Diego, Calif.), 1998

**Proceedings of the Fifth ACM SIGPLAN International Conference on Functional Programming (ICFP '00), Montréal, Canada, September 18-21, 2000** ,2000      Programming Languages and Systems Gert Smolka, 2003-06-26

ETAPS 2000 was the third 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 ve conferences FOSSACS FASE ESOP CC TACAS ve satellite workshops CBS CMCS CoFI GRATRA INT seven invited lectures a panel discussion and ten tutorials 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 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      **Compiler Construction** David A. Watt, 2003-06-29 ETAPS2000 was the third 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 ve conferences FOSSACS FASE ESOP CC TACAS ve satellite workshops CBS CMCS CoFI GRATRA INT seven invited lectures a panel discussion and ten tutorials 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 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

*Foundations of Security Analysis and Design* Riccardo Focardi, Roberto Gorrieri, 2003-06-30 Security is a rapidly growing area of computer science with direct and increasing relevance to real life applications such as Internet transactions electronic commerce information protection network and systems integrity etc This volume presents thoroughly revised versions of lectures given by leading security researchers during the IFIP WG 1.7 International School on Foundations of Security Analysis and Design FOSAD 2000 held in Bertinoro Italy in September Mathematical Models of Computer Security Peter Y A Ryan The Logic of Authentication Protocols Paul Syversen and Iliano Cervesato Access Control Policies Models and Mechanisms Pierangela Samarati and Sabrina de Capitani di Vimercati Security Goals Packet Trajectories and Strand Spaces Joshua D Guttman Notes on Nominal Calculi for Security and Mobility Andrew D Gordon Classification of Security Properties Riccardo Focardi and Roberto Gorrieri      *Knowledge-Based Intelligent Information and Engineering Systems* Rajiv

Khosla, 2005-08-25 Dear delegates friends and members of the growing KES professional community welcome to the proceedings of the 9th International Conference on Knowledge Based and Intelligent Information and Engineering Systems hosted by La Trobe University in Melbourne Australia. The KES conference series has been established for almost a decade and it continues each year to attract participants from all geographical areas of the world including Europe the Americas Australasia and the Pacific Rim. The KES conferences cover a wide range of intelligent systems topics. The broad focus of the conference series is the theory and applications of intelligent systems. From a pure research field intelligent systems have advanced to the point where their abilities have been incorporated into many business and engineering application areas. KES 2005 provided a valuable mechanism for delegates to obtain an extensive view of the latest research into a range of intelligent systems algorithms tools and techniques. The conference also gave delegates the chance to come into contact with those applying intelligent systems in diverse commercial areas. The combination of theory and practice represented a unique opportunity to gain an appreciation of the full spectrum of leading edge intelligent systems activity. The papers for KES 2005 were either submitted to invited sessions chaired and organized by respected experts in their fields or to a general session managed by an extensive International Program Committee or to the Intelligent Information Hiding and Multimedia Signal Processing IIHMSP Workshop managed by an International Workshop Technical Committee.

*SSA-based Compiler Design* Fabrice Rastello, Florent Bouchez Tichadou, 2022-12-08 This book provides readers with a single source reference to static single assignment SSA based compiler design. It is the first and up to now only book that covers in a deep and comprehensive way how an optimizing compiler can be designed using the SSA form. After introducing vanilla SSA and its main properties the authors describe several compiler analyses and optimizations under this form. They illustrate how compiler design can be made simpler and more efficient thanks to the SSA form. This book also serves as a valuable text reference for lecturers making the teaching of compilers simpler and more effective. Coverage also includes advanced topics such as code generation aliasing predication and more making this book a valuable reference for advanced students and practicing engineers.

**Compiler Construction** R. Nigel Horspool, 2003-08-01 ETAPS 2002 was the fifth 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 5 conferences FOSSACS FASE ESOP CC TACAS 13 satellite workshops ACL2 AGT CMCS COCV DCC INT LDFA SC SFEDL SLAP SPIN TPTS and VISS 8 invited lectures not including those specific to the satellite events and several tutorials. 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 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 Programming Languages and Systems S. Doaitse Swierstra, 2003-07-31 This is the second time that of ESOP has formed part of the ETAPS cluster of conferences workshops working group meetings and other associated activities One of the results of colocating so many conferences is a reduction in the number of possibilities to submit a paper to a European conference and the increased competition between conferences that occurs when boundaries between individual conferences have not yet become well established This may have been the reason for the fact that only 44 submissions were received this year On the other hand we feel that the average quality of submissions has gone up and thus the program committee was able to select 18 good papers only one less than the year before The program committee did not meet physically and all discussion was done using a Web driven data base system Despite some mixed feelings there is an overall tendency to appreciate the extra time available for giving papers a second look and really going into comments made by other program committee members I want to thank my fellow program committee members for the work they have put into the refereeing process and the valuable feedback they have given to authors I want to thank the referees for their work and many detailed comments and finally I want to thank everyone who has submitted a paper without authors no conference

**Information Hiding** Jessica Fridrich, 2004-12-17 This book constitutes the thoroughly refereed post proceedings of the 6th International Workshop on Information Hiding IH 2004 held in Toronto Canada in August 2004 The 25 revised full papers presented were carefully selected during two rounds of reviewing and revision from 70 papers submitted The papers are organized in topical sections on digital media watermarking steganalysis forensic applications steganography software watermarking security and privacy anonymity and data hiding in unusual content

*Mathematics of Program Construction* Philippe Audebaud, 2008-07-04 This book constitutes the refereed proceedings of the 9th International Conference on Mathematics of Program Construction MPC 2008 held in Marseille France in July 2008 The 18 revised full papers presented together with 1 invited talk were carefully reviewed and selected from 41 submissions Issues addressed range from algorithmics to support for program construction in programming languages and systems Topics of special interest are type systems program analysis and transformation programming language semantics program logics

**Design Concepts in Programming Languages** Franklyn Turbak, David Gifford, 2008-07-18 Key ideas in programming language design and implementation explained using a simple and concise framework a comprehensive introduction suitable for use as a textbook or a reference for researchers Hundreds of programming languages are in use today scripting languages for Internet commerce user interface programming tools spreadsheet macros page format specification languages and many others Designing a programming language is a metaprogramming activity that bears certain similarities to programming in a regular language with clarity and simplicity even more important than in ordinary programming This comprehensive text uses a simple and concise framework to teach key ideas in programming language design and implementation The book's unique approach is based on a family of

syntactically simple pedagogical languages that allow students to explore programming language concepts systematically. It takes as premise and starting point the idea that when language behaviors become incredibly complex the description of the behaviors must be incredibly simple. The book presents a set of tools: a mathematical metalanguage, abstract syntax, operational and denotational semantics, and uses it to explore a comprehensive set of programming language design dimensions including dynamic semantics, naming, state, control, data, static semantics, types, type reconstruction, polymorphism, effects, and pragmatics, compilation, garbage collection. The many examples and exercises offer students opportunities to apply the foundational ideas explained in the text. Specialized topics and code that implements many of the algorithms and compilation methods in the book can be found on the book's Web site along with such additional material as a section on concurrency and proofs of the theorems in the text. The book is suitable as a text for an introductory graduate or advanced undergraduate programming languages course; it can also serve as a reference for researchers and practitioners.

**Parallel Computing Technologies** Victor Malyshev, 2003-06-30. This book constitutes the refereed proceedings of the 6th International Conference on Parallel Computing Technologies PaCT 2001 held in Novosibirsk, Russia, in September 2001. The 36 revised full papers and 13 posters presented together with 4 invited papers were carefully reviewed and selected from 81 submissions. The papers presented span the whole range of parallel processing from theory and software through architecture and applications. Among the topics addressed are shared memory systems, formal methods, networks of processes, cellular automata, mobile data access systems, Java programming, neuro cluster computing, network clusters, load balancing, etc.

*Information Security* Jianying Zhou, 2005-09-12. This book constitutes the refereed proceedings of the 8th International Information Security Conference ISC 2005 held in Singapore in September 2005. The 33 revised full papers presented together with 5 student papers were carefully reviewed and selected from 271 submissions. The papers are organized in topical sections on network security, trust and privacy, key management and protocols, public key encryption and signature, signcryption, crypto algorithm and analysis, cryptography applications, software security, authorization and access control.

Automata, Languages and Programming Luis Caires, Giuseppe F. Italiano, Luis Monteiro, Catuscia Palamidessi, Moti Yung, 2005-08-25. The 32nd International Colloquium on Automata Languages and Programming ICALP 2005 was held in Lisbon, Portugal, from July 11 to July 15, 2005. These proceedings contain all contributed papers presented at ICALP 2005 together with the papers by the invited speakers Giuseppe Castagna, ENS, Leonid Libkin, Toronto, John C. Mitchell, Stanford, Burkhard Monien, Paderborn, and Leslie Valiant, Harvard. The program had an additional invited lecture by Adi Shamir, Weizmann Institute, which does not appear in these proceedings. ICALP is a series of annual conferences of the European Association for Theoretical Computer Science (EATCS). The first ICALP took place in 1972. This year the ICALP program consisted of the established track A focusing on algorithms, automata, complexity, and games, and track B focusing on logic, semantics, and theory of programming, and innovated on the structure of its traditional scientific program with the

inauguration of a new track C focusing on security and cryptography foundation In response to a call for papers the Program Committee received 407 submissions 258 for track A 75 for track B and 74 for track C This is the highest number of submitted papers in the history of the ICALP conferences The Program Committees selected 113 papers for inclusion in the scientific program In particular the Program Committee for track A selected 65 papers the Program Committee for track B selected 24 papers and the Program Committee for track C selected 24 papers All the work of the Program Committees was done electronically

**Surreptitious Software** Jasvir Nagra, Christian Collberg, 2009-07-24 This book gives thorough scholarly coverage of an area of growing importance in computer security and is a must have for every researcher student and practicing professional in software protection Mikhail Atallah Distinguished Professor of Computer Science at Purdue University Theory Techniques and Tools for Fighting Software Piracy Tampering and Malicious Reverse Engineering The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering These techniques are indispensable for software developers seeking to protect vital intellectual property Surreptitious Software is the first authoritative comprehensive resource for researchers developers and students who want to understand these approaches the level of security they afford and the performance penalty they incur Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science including cryptography steganography watermarking software metrics reverse engineering and compiler optimization Using extensive sample code they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking and discuss the theoretical and practical limitations of these techniques Coverage includes Mastering techniques that both attackers and defenders use to analyze programs Using code obfuscation to make software harder to analyze and understand Fingerprinting software to identify its author and to trace software pirates Tamperproofing software using guards that detect and respond to illegal modifications of code and data Strengthening content protection through dynamic watermarking and dynamic obfuscation Detecting code theft via software similarity analysis and birthmarking algorithms Using hardware techniques to defend software and media against piracy and tampering Detecting software tampering in distributed system Understanding the theoretical limits of code obfuscation

**ECOOP '99 - Object-Oriented Programming** Rachid Guerraoui, 1999-06-02 My tailor is Object Oriented Most software systems that have been built recently are claimed to be Object Oriented Even older software systems that are still in commercial use have been upgraded with some OO flavors The range of areas where OO can be viewed as a must have feature seems to be as large as the number of fields in computer science If we stick to one of the original views of OO that is to create cost effective software solutions through modeling physical abstractions the application of OO to any field of computer science does indeed make sense There are OO programming languages OO operating systems OO databases OO specifications OO methodologies etc So what does a conference on Object Oriented Programming really mean I honestly don't know What I do know is that since its creation in

1987 ECOOP has been attracting a large number of contributions and ECOOP conferences have ended up with high quality technical programs featuring interesting mixtures of theory and practice. Among the 183 initial submissions to ECOOP 99, 20 papers were selected for inclusion in the technical program of the conference. Every paper was reviewed by three to five referees. The selection of papers was carried out during a 4 day program committee meeting at the Swiss Federal Institute of Technology in Lausanne. Papers were judged according to their originality, presentation quality and relevance to the conference topics.

**Proceedings of the Sixth ACM SIGPLAN International Conference on Functional Programming (ICFP '01), Florence, Italy, September 3-5, 2001**, 2001     *Formal Methods for Industrial Critical Systems* Stefan Leue, Pedro Merino, 2008-05-19. This book constitutes the thoroughly refereed post-workshop proceedings of the 12th International Workshop on Formal Methods for Industrial Critical Systems FMICS 2007 held in Berlin, Germany in July 2007, colocated with CAV 2007, the 19th International Conference on Computer Aided Verification. The 15 revised full papers presented together with the abstracts of 2 invited lectures were carefully selected during two rounds of reviewing and improvement from 31 initial submissions. The papers strive to promote research and development for the improvement of formal methods and tools for industrial applications and they are organized in topical sections on control systems, scheduling and time verification, software and testing.

*Proceedings of the Third ACM SIGPLAN International Conference on Functional Programming (ICFP '98)*, 1998



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web box method algebraically make  $b = 0$  or use the square root method  $ax^2 + c = 0$  isolate  $x$  remember to use for all cannot take the of a negative  $0 < 0$  completing the square move  $c$  to other side  $b^2 \pm 4ac$  finds what you add to both sides square root each side high and low can be used for any quadratic equation  $ax^2 + bx + c = 0$  but

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web  $y = 5x + 1$   $5x^2 + 2x + 3$   $8y + 5$   $2x^2 + 6x + 3$  simplifying rational exponents simplify each expression  $9ax + 1$   $5b + 10$   $10a + 28x + 3b + 4$  3 finding inverses find the inverse of each function is the

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