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Special volume of 50 selected papers, with retrospectives from the original authors. Thinking Low-Level, Writing High-Level, the second volume in the landmark Write Great Code series by Randall Hyde, covers high-level programming languages (such as Swift and Java) as well as code generation on 64-bit CPUsARM, the Java Virtual Machine, and the Microsoft Common Runtime.

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Today's programming languages offer productivity and portability, but also make it easy to write sloppy code that isn't optimized for a compiler. Thinking Low-Level, Writing High-Level will teach you to craft source code that results in good machine code once it's run through a compiler. You'll learn: How to analyze the output of a compiler to verify that your code generates good machine code The types of machine code statements that compilers generate for common control structures, so you can choose the best statements when

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writing HLL code Enough assembly language to read compiler output How compilers convert various constant and variable objects into machine data With an understanding of how compilers work, you'll be able to write source code that they can translate into elegant machine code. NEW TO THIS EDITION, COVERAGE OF: Programming languages like Swift and Java Code generation on modern 64-bit CPUs ARM processors on mobile phones and tablets Stack-based architectures like the Java Virtual Machine Modern language systems

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like the Microsoft Common Language Runtime Symposium held Jan. 22-24, 1990, San Francisco, Calif.

Conference Record of POPL '96

Proceedings of the 5th CHILL Conference, Rio de Janeiro, Brazil, 19-22 March 1990

Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms

Compiler Construction

Code Nation

8th International Symposium, PLILP '96, Aachen, Germany, September 24 - 27, 1996.

Proceedings

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"Little languages" are specialty languages that can help programmers streamline the development of specific applications. This text, written for experienced programmers, serves as a step-by-step guide to developing compilers and interpreters for "little languages".

As the complexity of software increases, researchers and practitioners continue to seek better techniques for engineering the construction of evolution of software. Partial evaluation is an attractive technology for

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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

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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.

With warm-hearted and friendly promotion by our Japanese friends Prof. - sushi Ohori, Prof. Tetsuo Ida, and Prof. Zhenjiang Hu, and other distinguished professors and scholars from countries and regions such as Japan, South Korea, Singapore, and Taiwan, the 1st Asian Symposium on Programming Languages and S

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ystems(APLAS2003)tookplaceinBeijing.Wereceived76papers,among which 24 were selected for the proceedings after serious evaluation, which fully demonstrates the high quality of the collected papers. I hereby, on behalf of the Program Committee and the Organization Committee of the symposium, would like to extend the warmest welcome and hearty thanks to all colleagues who attended the symposium, all scholars who generously contributed their papers, and all those who were actively dedicated to the organization of

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this symposium. Over the past decade, the Asian economy has undergone rapid development. Keeping pace with this accelerated economic growth, Asia has made great headway in software, integrated circuits, mobile communication and the Internet. All this has laid a firm material foundation for undertaking theoretical research on computer science and programming languages. Therefore, to meet the increasing demands of the IT market, great opportunities and challenges in advanced research in these

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felds. I strongly believe that in the coming future, with the persistent e?orts of our colleagues, the Asian software industry and research on computer science will be important players in the world economy, on an equal footing with their counterparts in the United States and Europe.

Handbook of Programming Languages: Object-oriented programming languages

Foundations of Programming Languages

A Monthly Publication of the Special Interest Group on Programming Languages

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***Personal Computing and the Learn to Program Movement in America
Papers Presented at the Conference, Orlando, Florida, June 27-29
Partial Evaluation: Practice and Theory***

Today's compiler writer must choose a path through a design space that is filled with diverse alternatives. "Engineering a Compiler" explores this design space by presenting some of the ways these problems have been solved, and the constraints that made each of those solutions attractive.

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These puzzles and mind-benders serve as a way to train logic and help developers, hackers, and system administrators discover unconventional solutions to common IT problems. Users will learn to find bugs in source code, write exploits, and solve nonstandard coding tasks and hacker puzzles. Cryptographic puzzles, puzzles for Linux and Windows hackers, coding puzzles, and puzzles for web designers are included. This clearly written textbook introduces the reader to the three styles of programming, examining object-oriented/imperative, functional,

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and logic programming. The focus of the text moves from highly prescriptive languages to very descriptive languages, demonstrating the many and varied ways in which we can think about programming. Designed for interactive learning both inside and outside of the classroom, each programming paradigm is highlighted through the implementation of a non-trivial programming language, demonstrating when each language may be appropriate for a given problem. Features: includes review questions and solved practice exercises, with

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supplementary code and support files available from an associated website; provides the foundations for understanding how the syntax of a language is formally defined by a grammar; examines assembly language programming using CoCo; introduces C++, Standard ML, and Prolog; describes the development of a type inference system for the language Small.

On Macintosh Programming

Proceedings of the 1989 Glasgow Workshop

21–23 August 1989, Fraserburgh, Scotland

Constructing Language Processors for Little

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Languages

Programming Pearls

Engineering a Compiler

Algorithms and Programming

This text is structured in a problem-solution format that requires the student to think through the programming process. New to the second edition are additional chapters on suffix trees, games and strategies, and Huffman coding as well as an Appendix illustrating the ease of conversion from Pascal to C.

Compilers: Principles, Techniques and Tools, is known to professors, students, and developers worldwide as the

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"Dragon Book," . Every chapter has been revised to reflect developments in software engineering, programming languages, and computer architecture that have occurred since 1986, when the last edition published. The authors, recognising that few readers will ever go on to construct a compiler, retain their focus on the broader set of problems faced in software design and software development. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either

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offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

This book uses a functional programming language (F#) as a metalanguage to present all concepts and examples, and thus has an operational flavour, enabling practical experiments and exercises. It includes basic concepts such as abstract syntax, interpretation, stack machines,

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compilation, type checking, garbage collection, and real machine code. Also included are more advanced topics on polymorphic types, type inference using unification, co- and contravariant types, continuations, and backwards code generation with on-the-fly peephole optimization. This second edition includes two new chapters. One describes compilation and type checking of a full functional language, tying together the previous chapters. The other describes how to compile a C subset to real (x86) hardware, as a smooth extension of the previously presented compilers. The examples present several interpreters and compilers for toy languages,

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including compilers for a small but usable subset of C, abstract machines, a garbage collector, and ML-style polymorphic type inference. Each chapter has exercises. Programming Language Concepts covers practical construction of lexers and parsers, but not regular expressions, automata and grammars, which are well covered already. It discusses the design and technology of Java and C# to strengthen students' understanding of these widely used languages.

*Proceedings 20th International Conference Parallel Processing 1991
Advanced Techniques*

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Concepts in Programming Languages

Towards a Service Provision Society

Programming Languages: Principles and Paradigms

CHILL, CCITT High Level Language

When programmers list their favorite books, Jon Bentley's collection of programming pearls is commonly included among the classics. Just as natural pearls grow from grains of sand that irritate oysters, programming pearls have grown from real problems that have irritated real programmers. With origins beyond solid engineering, in the realm of insight and

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creativity, Bentley's pearls offer unique and clever solutions to those nagging problems. Illustrated by programs designed as much for fun as for instruction, the book is filled with lucid and witty descriptions of practical programming techniques and fundamental design principles. It is not at all surprising that Programming Pearls has been so highly valued by programmers at every level of experience. In this revision, the first in 14 years, Bentley has substantially updated his essays to reflect current programming methods and environments. In addition, there are three new essays on

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testing, debugging, and timing set representations string problems All the original programs have been rewritten, and an equal amount of new code has been generated. Implementations of all the programs, in C or C++, are now available on the Web. What remains the same in this new edition is Bentley's focus on the hard core of programming problems and his delivery of workable solutions to those problems. Whether you are new to Bentley's classic or are revisiting his work for some fresh insight, the book is sure to make your own list of favorites.

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CHILL is the high-level programming language defined and recommended by CCITT for the production of efficient, reliable and maintainable software for telecommunication systems. It is a mature programming language, used in the development and maintenance of a number of leading telecommunication systems all over the world. Although initially designed with telecommunication systems in mind, the language has proven to be powerful enough for both general purpose and distributed real-time applications. This book contains forty contributions from many organizations around the world, which outline

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the latest and most important achievements concerning the implementation and use of the language and related programming tools and environments.

This textbook offers an understanding of the essential concepts of programming languages. The text uses interpreters, written in Scheme, to express the semantics of many essential language elements in a way that is both clear and directly executable.

Proceedings of the 1994 ACM Conference on LISP and Functional Programming

First Asian Symposium, APLAS 2003, Beijing, China, November 27-29, 2003, Proceedings

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Functional Programming

Programming Languages: Concepts & Constructs,
2/E

Compilers: Principles, Techniques, and Tools

The "Handbook of Programming Languages" series provides a complete reference on the fundamentals of programming languages and methodologies. Volume 2 covers four important Imperative Languages.

A comprehensive undergraduate textbook covering both theory and practical design issues, with an emphasis on object-oriented languages.

Functional Programming is a relatively new area of computer

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science. These proceedings contain 25 papers representing an excellent snapshot of the current state of functional programming and are written by the leading computer scientists in this area. In some universities, a functional programming language is used as the introductory teaching language and computer architectures are being designed and investigated to support functional languages.

*Ninth Working Conference on Reverse Engineering
DIKU 1998 International Summer School, Copenhagen,
Denmark, June 29 - July 10, 1998*

ACM SIGPLAN Notices

*Proceedings of the 1997 ACM SIGPLAN International
Conference on Functional Programming (ICFP '97),*

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Amsterdam, The Netherlands, 9-11 June 1997

Puzzles for Hackers

The 23rd ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages : Papers Presented at the Symposium, St. Petersburg Beach, Florida, 21-24 January 1996

Compilers and operating systems constitute the basic interfaces between a programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a firm theoretical

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basis for compiler construction and sound engineering principles for selecting alternate methods, implementing them, and integrating them into a reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to

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understand the questions he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the design rests on whim; each decision must be based upon specific, identifiable characteristics of the source and target languages or upon design goals of the compiler. The vast majority of computer professionals will never write a compiler. Nevertheless,

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study of compiler technology provides important benefits for almost everyone in the field . • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation .

Application vulnerabilities continue to

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top the list of cyber security concerns. While attackers and researchers continue to expose new application vulnerabilities, the most common application flaws are previous, rediscovered threats. For example, SQL injection and cross-site scripting (XSS) have appeared on the Open Web Application Security Project Programming Languages: Implementations, Logics, and Programs 8th International Symposium, PLILP '96, Aachen, Germany,

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September 24 - 27, 1996.

Proceedings Springer Science & Business
Media

ACM Transactions on Programming
Languages and Systems

Books in Print

Thinking Low-Level, Writing High-Level
Problems and Solutions

Programming Languages and Systems
Information Systems Development

This book constitutes the refereed proceedings of the
First Asian Symposium on Programming Languages

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and Systems, APLAS 2003, held in Beijing, China in November 2003. The 24 revised full papers presented together with abstracts of 3 invited talks were carefully reviewed and selected from 75 submissions. The papers are devoted to concurrency and parallelism, language implementation and optimization, mobile computation and security, program analysis and verification, program transformation and calculation, programming paradigms and language design, programming techniques and applications, program semantics, categorical and logical foundations, tools and environments, type theory and type systems.

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This excellent addition to the UTiCS series of undergraduate textbooks provides a detailed and up to date description of the main principles behind the design and implementation of modern programming languages. Rather than focusing on a specific language, the book identifies the most important principles shared by large classes of languages. To complete this general approach detailed descriptions of the main programming paradigms, namely imperative, object-oriented, functional and logic are given, analysed in depth and compared. This provides the basis for a critical understanding of most of the programming languages.

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An historical viewpoint is also included, discussing the evolution of programming languages, and to provide a context for most of the constructs in use today. The book concludes with two chapters which introduce basic notions of syntax, semantics and computability, to provide a completely rounded picture of what constitutes a programming language. /div

This book constitutes the refereed proceedings of the Eighth International Symposium on Programming Languages, Implementations, Logics, and Programs, PLILP '96, held in conjunction with ALP and SAS in Aachen, Germany, in September 1996. The 30 revised

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full papers presented in the volume were selected from a total of 97 submissions; also included are one invited contribution by Lambert Meerlens and five posters and demonstrations. The papers are organized in topical sections on typing and structuring systems, program analysis, program transformation, implementation issues, concurrent and parallel programming, tools and programming environments, lambda-calculus and rewriting, constraints, and deductive database languages.

Programming Language Concepts

Programming Languages: Implementations, Logics, and

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Programs

Proceedings

AUUGN

Essentials of Programming Languages

Write Great Code, Volume 2, 2nd Edition

Code Nation explores the rise of software development as a social, cultural, and technical phenomenon in American history. The movement germinated in government and university labs during the 1950s, gained momentum through corporate and counterculture experiments in the 1960s and 1970s, and became a broad-based computer

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literacy movement in the 1980s. As personal computing came to the fore, learning to program was transformed by a groundswell of popular enthusiasm, exciting new platforms, and an array of commercial practices that have been further amplified by distributed computing and the Internet. The resulting society can be depicted as a “Code Nation”—a globally-connected world that is saturated with computer technology and enchanted by software and its creation. Code Nation is a new history of personal computing that emphasizes the technical and business challenges that software developers faced when building

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applications for CP/M, MS-DOS, UNIX, Microsoft Windows, the Apple Macintosh, and other emerging platforms. It is a popular history of computing that explores the experiences of novice computer users, tinkerers, hackers, and power users, as well as the ideals and aspirations of leading computer scientists, engineers, educators, and entrepreneurs. Computer book and magazine publishers also played important, if overlooked, roles in the diffusion of new technical skills, and this book highlights their creative work and influence. Code Nation offers a “behind-the-scenes” look at application and operating-system

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programming practices, the diversity of historic computer languages, the rise of user communities, early attempts to market PC software, and the origins of “enterprise” computing systems. Code samples and over 80 historic photographs support the text. The book concludes with an assessment of contemporary efforts to teach computational thinking to young people.

This volume constitutes the published proceedings of the 17th International Conference on Information Systems Development. They present the latest and greatest concepts, approaches, and techniques

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of systems development - a notoriously transitional field.

Twenty Years of the ACM SIGPLAN Conference on Programming Language Design and Implementation

Proceedings : 29 October-1 November, 2002, Richmond, Virginia

Pearson New International Edition

Mathematical Reviews

Official (ISC)2 Guide to the CSSLP CBK

Compilers: Principles, Techniques and Tools (for Anna University), 2/e