Advanced Computer Architectures

Sajjan G. Shiva

About the Book: Despite the tremendous advances in performance enabled by modern architectures, there are always new applications and demands arising that require ever-increasing capabilities. Keeping up with these demands requires a deep-seated understanding of contemporary architectures in concert with a fundamental understanding of basic principles that allows one to anticipate what will be possible over the system’s lifetime. Advanced Computer Architectures focuses on the design of high performance supercomputers with balanced coverage of the hardware, software structures, and application characteristics.

This book is a timeless distillation of underlying principles punctuated by real-world implementations in popular current and past commercially available systems. It briefly reviews the basics of uniprocessor architecture before outlining the most popular processing paradigms, performance evaluation, and cost factor considerations. This builds to a final chapter exploring some important current and emerging trends such as Dataflow, Grid, biology-inspired, and optical computing. More than 220 figures, tables, and equations illustrate the concepts presented.

Based on the author's more than thirty years of teaching and research, Advanced Computer Architectures endows you with the tools necessary to reach the limits of existing technology, and ultimately, to break them.


Artificial Intelligence and Soft Computing

With CD

Amit Konar

About the Book: With all the material available in the field of artificial intelligence (AI) and soft computing-texts, monographs, and journal articles—there remains a serious gap in the literature. Until now, there has been no comprehensive resource accessible to a broad audience yet containing a depth and breadth of information that enables the reader to fully understand and readily apply AI and soft computing concepts.

Artificial Intelligence and Soft Computing fills this gap. It presents both the traditional and the modern aspects of AI and soft computing in a clear, insightful, and highly comprehensive style. It provides an in-depth analysis of mathematical models and algorithms and demonstrates their applications in real-world problems.

Beginning with the behavioral perspective of "human cognition," the text covers the tools and techniques required for its intelligent realization on machines. The author addresses the classical aspects-search, symbolic logic, planning, and machine learning—in detail and includes the latest research in these areas. He introduces the modern aspects of soft computing from first principles and discusses them in a manner that enables a beginner to grasp the subject. He also covers a number of other leading aspects of AI research, including nonmonotonic and spatio-temporal reasoning, knowledge acquisition, and much more.

Artificial Intelligence and Soft Computing: Behavioral and Cognitive Modeling of the Human Brain is unique for its diverse content, clear presentation, and overall completeness. It provides a practical, detailed introduction that will prove valuable to computer science practitioners and students as well as to researchers migrating to the subject from other disciplines.

Representation 5. Geometric Modelling for Space Curve, Index

Computer Graphics

C.S. Verma

About the Book: This book has been written in a very simple and lucid language so that even the student with no background can understand the dynamic of the same. This book has been thoroughly structured to serve as an ideal textbook for various courses like Engineering courses, MCA, BCA, MSc computer science etc of various universities like UPTU, DU, CSVTU, RGPTU, PSSOU etc. Numerous examples and lots of solved problems have been added in each topic. A brief overview of computers has been included to introduce the reader the basic concepts of computer graphics hardwares and software. Important elements of computer graphics like display and viewing have been presented after discussing entity generation. Mathematical techniques for producing projection are given, along with generalized techniques for rotation, translation and scaling of geometric figures. Definitions for both explicit and parametric representations are presented for both curves and surfaces. The various aspects of geometric modeling have been presented through detailed description of 2D and 3D curves and surfaces generation techniques.

Contents:
1. Computer System for Graphics and Design
3. 2D and 3D Transformations
4. Curves and Surface Representation
5. Geometric Modelling for Space Curve, Index

9789380618111 186 (Pb) ₹ 160.00 Ane Books

Data Flow Analysis

Theory and Practice

Uday P. Khedker
Amitabha Sanyal
Bageshri Karkare

About the Book: Data flow analysis is used to discover information for a wide variety of useful applications, ranging from compiler optimizations to software engineering and verification. Modern compilers apply it to produce performance-maximizing code, and software engineers use it to re-engineer or reverse engineer programs and verify the integrity of their programs.

Unlike most comparable books, many of which are limited to bit vector frameworks and classical constant propagation, Data Flow Analysis: Theory and Practice offers comprehensive coverage of both classical and contemporary data flow analysis. It prepares foundations useful for both researchers and students in the field by standardizing and unifying various existing research, concepts, and notations. Divided into three parts, this unique text combines discussions of both inter- and intraprocedural analysis and then describes implementation of a generic data flow analyzer for bit vector frameworks in GCC.

This useful text:
• Addresses specification of data flow frameworks and the solution process
• Presents generalizations of constant and dependent parts of flow functions apart from the lattice theoretic modeling of data flow frameworks
• Includes an intermediate SSA representation of programs, which directly relates definition and use points of data for increased performance efficiency
• Avoids methods specific to particular applications and frameworks, focuses on generic functional and value based approaches, instead of presenting interprocedural methods specific to particular applications or frameworks
• Use numerous case studies and examples to reinforce material

In addition to the text, readers will be able to use an accompanying updated Web page that features slides used in the course, as well as the source of the generic data flow analyzer gdfa, an errata that features errors as they are discovered, and any additional relevant material discovered in the course of research.

Contents:
PREFACE: -An Introduction to Data Flow Analysis
SECTION I: Intraprocedural Data Flow Analysis
- Classical Bit Vector Data Flow Analysis -Theoretical Abstractions in Data Flow Analysis -General Data Flow Frameworks -Complexity of Iterative Data Flow Analysis -Single Static Assignment Form as Intermediate Representation
SECTION III: Implementing Data Flow Analysis -Implementing Data Flow Analysis in GCC
APPENDICES: An Introduction to GCC, About GCC, Building GCC, Further Readings in GCC

9780849328800 400 (Pb) ₹ 895.00 CRC Press

www.anebooks.com
Data Mining and Machine Learning in Cybersecurity

Sumeet Dua
Xian Du

About the Book: With the rapid advancement of information discovery techniques, machine learning and data mining continue to play a significant role in cybersecurity. Although several conferences, workshops, and journals focus on the fragmented research topics in this area, there has been no single interdisciplinary resource on past and current works and possible paths for future research in this area. This book fills this need.

From basic concepts in machine learning and data mining to advanced problems in the machine learning domain, Data Mining and Machine Learning in Cybersecurity provides a unified reference for specific machine learning solutions to cybersecurity problems. It supplies a foundation in cybersecurity fundamentals and surveys contemporary challenges—detailling cutting-edge machine learning and data mining techniques. It also:

• Unveils cutting-edge techniques for detecting new attacks
• Contains in-depth discussions of machine learning solutions to detection problems
• Categorizes methods for detecting, scanning, and profiling intrusions and anomalies
• Surveys contemporary cybersecurity problems and unveils state-of-the-art machine learning and data mining solutions
• Details privacy-preserving data mining methods

This interdisciplinary resource includes technique review tables that allow for speedy access to common cybersecurity problems and associated data mining methods. Numerous illustrative figures help readers visualize the workflow of complex techniques and more than forty case studies provide a clear understanding of the design and application of data mining and machine learning techniques in cybersecurity.


9781439839423 256 (Hb) ₹ 2995.00 CRC Press

Data Mining For Design and Marketing

Yukio Ohsawa
Katsutoshi Yada

About the Book: Data Mining for Design and Marketing shows how to design and integrate data mining tools into human thinking processes in order to make better business decisions, especially in designing and marketing products and systems.

The expert contributors discuss how data mining can identify valuable consumer patterns, which aid marketers and designers in detecting consumers’ needs. They also explore visualization tools based on the computational methods of data mining. Discourse analysis, chance discovery, knowledge discovery, formal concept analysis, and an adjacency matrix are just some of the novel approaches covered. The book explains how these methods can be applied to website design, the retrieval of scientific articles from a database, personalized e-commerce support tools, and more. Through the techniques of data mining, this book demonstrates how to effectively design business processes and develop competitive products and services. By embracing data mining tools, businesses can better understand the behavior and needs of their customers.

Features:
• Examines the unification of marketing and design as a new application domain
• Reflects new research in subjective value creation, including how data mining and visualization are used in market dynamics
• Analyzes human society to discover patterns in the business market
• Presents communication mining tools for industrial designs
• Uses social data to discover and design products and services
• Covers traditional evaluation criteria, such as predictive accuracy and computation speed
• Explores applications in online market analysis systems, website design, global teamwork projects, database retrieval, and e-commerce


9781420070194 336 (Hb) ₹ 2995.00 CRC Press
Data Mining Tools for Malware Detection

Mehedy Masud
Latifur Khan
Bhavani Thuraisingham

About the Book: Although the use of data mining for security and malware detection is quickly on the rise, most books on the subject provide high-level theoretical discussions to the near exclusion of the practical aspects. Breaking the mold, Data Mining Tools for Malware Detection provides a step-by-step breakdown of how to develop data mining tools for malware detection. Integrating theory with practical techniques and experimental results, it focuses on malware detection applications for email worms, malicious code, remote exploits, and botnets.

The authors describe the systems they have designed and developed: email worm detection using data mining, a scalable multi-level feature extraction technique to detect malicious executables, detecting remote exploits using data mining, and flow-based identification of botnet traffic by mining multiple log files. For each of these tools, they detail the system architecture, algorithms, performance results, and limitations.

- Discusses data mining for emerging applications, including adaptable malware detection, insider threat detection, firewall policy analysis, and real-time data mining
- Includes four appendices that provide a firm foundation in data management, secure systems, and the semantic web
- Describes the authors’ tools for stream data mining

From algorithms to experimental results, this is one of the few books that will be equally valuable to those in industry, government, and academia. It will help technologists decide which tools to select for specific applications, managers will learn how to determine whether or not to proceed with a data mining project, and developers will find innovative alternative designs for a range of applications.

Contents:
1. Data Mining Meets Grid Computing: Time to Dance (Alberto Sánchez, María S. Pérez, and Pedro du Miguel)
2. Data Mining Techniques in Grid Computing Environments
3. Data Mining and Security
4. Data Mining for Malware Detection
5. Data Mining and Policy Analysis
6. Data Mining for Insider Threat Detection
7. Data Mining for Dependable Real-Time Data Mining
8. Data Mining for Email Worm Detection
9. Data Mining for Malicious Executables
10. Data Mining for Remote Exploits
11. Data Mining for Botnets
12. Data Mining for Distributed Data Mining
13. Data Mining for Grid Applications
14. Data Mining for Grid Computing

Data Mining Techniques in Grid Computing Environments

Werner Dubitzky


About the Book: In today’s digital design environment, engineers must achieve quick turn-around time with ready access to circuit synthesis and simulation applications. This type of productivity relies on the principles and practices of computer aided design (CAD). Digital Design: Basic Concepts and Principles addresses the many challenging issues critical to today’s digital design practices such as hazards and logic minimization, finite-state-machine synthesis, cycles and races, and testability theories while providing hands-on experience using one of the industry’s most popular design application, Xilinx WebPACK™.

The authors begin by discussing conventional and unconventional number systems, binary coding theories, and arithmetic as well as logic functions and Boolean algebra. Building upon classic theories of digital systems, the
book illustrates the importance of logic minimization using the Karnaugh map technique. It continues by discussing implementation options and examining the pros and cons of each method in addition to an assessment of tradeoffs that often accompany design practices. The book also covers testability, emphasizing that a good digital design must be easy to verify and test with the lowest cost possible. Throughout the text, the authors analyze combinational and sequential logic elements and illustrate the design of these components in structural, hierarchical, and behavioral VHDL descriptions.

Covering fundamentals and best practices, Digital Design: Basic Concepts and Principles provides you with critical knowledge of how each digital component ties together to form a system and develops the skills you need to design and simulate these digital components using modern CAD software.


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**Discrete Mathematics for Computing 2/e**

**About the Book:** Discrete Mathematics for Computing, Second Edition is aimed especially at students with a limited background in mathematics. It introduces discrete mathematics at a gentle pace, and with an informal style, but without compromising the need for correct methodology. It takes the reader through all of the essential material that forms the background for studies in computing and information systems.

The text uses many examples of the applications of theory to problems in computing, including a chapter on the representation and manipulation of numbers in a computer, examples of the use of prepositional logic in program design, a section discussing the relationship between the mathematical and programming concepts of a function, and a chapter on the estimation of the time complexity of algorithms.

- Updated and revised second edition of a popular text
- New sections on proof methods, recurrences and public key encryption
- Many examples use algorithms written in pseudo-code
- The exercises have been updated to reflect changes in computing since the first edition, and are designed both to provide practice in basic techniques and to challenge the student. Answers are given at the back of the book.

This book is suitable for students taking a one-semester introductory course in discrete mathematics, particularly for first year undergraduates studying Computing and Information Systems.

**Contents:** List of symbols, Preface, 1 Introduction to algorithms 2 Bases and number representation 3 Computer representation and arithmetic 4 Logic 5 Sets and relations 6 Functions 7 Induction and recursion 8 Boolean algebra and digital circuits 9 Combinatorics 10 Introduction to graph theory 11 Trees 12 Number Theory 13 Algorithms and computational complexity, Answers to exercises, Index.

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**Digital System Design Use of Microcontroller**

**About the Book:** Embedded systems are today, widely deployed in just about every piece of machinery from toasters to spacecraft. Embedded system designers face many challenges. They are asked to produce increasingly complex systems using the latest technologies, but these technologies are changing faster than ever. They are asked to produce better quality designs with a shorter time-to-market. They are asked to implement increasingly complex functionality but more importantly to satisfy numerous other constraints. To achieve the current goals of design, the designer must be aware with such design constraints and more importantly, the factors that have a direct effect on them.

One of the challenges facing embedded system designers is the selection of the optimum processor for the application in hand; single-purpose, general-purpose or application specific. Microcontrollers are one member of the family of the application specific processors.

The book concentrates on the use of microcontroller as the embedded system’s processor, and how to use it in many embedded system applications. The book covers both the hardware and software aspects needed to design using microcontroller.

The book is ideal for undergraduate students and also the engineers that are working in the field of digital system design.

**Contents:** List of Abbreviations • Process design metrics; • A systems approach to digital system design; • Introduction to microcontrollers and microprocessors; • Instructions and Instruction sets; • Machine language and assembly language; • System memory • Timers, counters and watchdog timer; • Interfacing to local devices - Analogue data and analogue I/O subsystem; • Multiprocessor communications- Network-based interfaces. Index
Evidence-Based Software Engineering and Systematic Reviews

Barbara Ann Kitchenham
David Budgen
Pearl Brereton

Features:
• Provides a clear introduction to the use of an evidence-based model for software engineering research and practice.
• Explains the roles of primary studies (experiments, surveys, case studies) as elements of an over-arching evidence model, rather than as disjointed elements in the empirical spectrum.
• Presents well-established and up-to-date guidelines for conducting secondary studies in software engineering.
• Supplies guidance on how an evidence-based approach can influence teaching, practice, and research.

Contents:
PART I EVIDENCE-BASED PRACTICES IN SOFTWARE ENGINEERING,
The Evidence-Based Paradigm, Evidence-Based Software Engineering (EBSE), Using Systematic Reviews in Software Engineering, Planning a Systematic Review, Searching for Primary Studies, Study Selection, Assessing Study Quality, Extracting Study Data, Mapping Study Analysis, Qualitative Synthesis, Meta-Analysis, Reporting a Systematic Review, Tool Support for Systematic Reviews, Evidence to Practice: Knowledge Translation and Diffusion, Further Reading for Part I, Part II THE SYSTEMATIC REVIEWER’S PERSPECTIVE OF PRIMARY STUDIES, Primary Studies and Their Role in EBSE, Controlled Experiments and Quasi-Experiments, Surveys, Case Studies, Data Mining Studies, Replicated and Distributed Studies, PART III GUIDELINES FOR SYSTEMATIC REVIEWS, A Catalogue of Systematic Reviews Relevant to Education and Practice, Bibliography, Index.

About the Book:
Much has been written about the difficulty of software testing. Often these laments are accompanied by cautionary words about how careful one has to be to ensure testing is done properly. However, there is a dearth of resources that give practical guidance on the nuts and bolts of testing. Essential Software Testing: A Use-Case Approach describes testing methods and techniques in a common sense manner that is easy to understand, helping readers to quickly and effectively implement project-specific testing solutions.

Divided into three parts, the book first discusses ways to make testing agile, providing insight into how testing can be done efficiently in different process environments. Next, the book supplies an overview of testing concepts. Lastly, it demonstrates how to perform the actual test, detailing specific testing activities that can be used on almost any project, with specific attention given to use-case driven testing. It describes how to test using Use Cases regardless of the specific requirements of the project.

The author weaves helpful war stories throughout the text, placing the concepts in a concrete framework. This guide gives software testers a firm grasp of all testing fundamentals: how to determine what to test and how to test it, how to select proper tests to match the plan, techniques to build and trace tests, and finally, how to conduct and record tests.

Contents:

About the Book:
The book is an effort aimed at serving a textbook on .NET programming for the undergraduate students of GGS Indraprastha University. Though this book is written primarily to cover the syllabus prescribed by GGS Indraprastha University, this book would be useful for the undergraduate students of other universities.

Salient features
• The language is very simple and easy to understand
• Examples and illustrations have been liberally provided to enhance the students understanding
• Provides a single book for three languages used in .NET programming
• To make the reading of this book interesting, bullet points, tabular forms and a summary of each chapter on capsules have been provided.

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Greg Fournier
**Effective Measurement and Management of It Costs and Benefits 2/ed**

Dan Remenyi  
Arthur Money  
Michael Sherwood-Smith  
Zahir Irani

**About the Book:** The rapidly increasing level of expenditure on information technology in most organisations is one reason why IT benefits management has become an important business concern.

Top management have begun to insist that much more attention be paid to the economic aspects of information systems. This has led to a great demand for a comprehensive IT metric. However, little attempt has yet been made to produce a complete approach to understanding the economics of how information is used to boost the efficiency or effectiveness of companies.

This second and fully updated edition of The Effective Measurement and Management of IT Costs and Benefits provides a basic framework for an understanding of the economic issues of information as well as some suggestions as to how a company’s IT efforts may be appraised.

The authors discuss a number of different evaluation concepts as well as reviewing several approaches to cost and benefit measurement. An IT Assessment Metric (ITAM) is proposed which allows firms to measure their progress towards obtaining maximum value from their information technology efforts.

A professional level book for the computer Weekly Professional Series—Provides a basic framework for an understanding of the economic issues of information as well as some suggestions as to how a company’s IT efforts may be appraised.


**Special Indian Price**

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**Front End Design Tool Using Vb.Net Including Crystal Reports**

C. Komalavalli  
Sanjib K Sahu

**About the Book:** The book is aimed at serving as textbook on Front End Design Tool-VB.NET for the undergraduate students of GGSIP University. Though this book is written primarily for GGSIP University students, the book would be useful for the undergraduate students of other universities as well.

**Salient features:**
- Written in very simple language and easy to understand.
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9780750644204  384 (Hb)  ₹ 895.00  Elsevier

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**HTML 5**

R. Lavanya

**About the Book:** Hyper Text Markup Language (HTML) is specially designed keeping in mind the ever-growing needs of undergraduate and postgraduate students. It also provides a wealth of information and serves as an encyclopedia to those who aspire to create their own websites. The whole concept has been narrated in a lucid language and easy to understand form, enriched with more examples and explanations.

**Salient Features:**
- Focuses on the standard HTML 5, the latest version.
- Contains many examples and screen shot outputs for easy understanding.
- Provides basics to in-depth in understanding of the concepts.
- Deals with CSS and JavaScript.


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Informatics
An Introduction
K. Ravindran Asari

About the Book: Since the advent of computers, individuals and organisations increasingly process information digitally. This has led to the study of Informatics, which has become essential for every student irrespective of the field of specialisation. Informatics encompasses the study of systems and tools for the processing, transmission and access of information, which necessitate acquiring basic knowledge about computers, hardware, software, networking and networks, online access of information sources and the structure and functions of the Internet.

Contents: Module-1 Informatics, Module-2 Basic Hardware, Module-3 Software, Module-4 Networking and the Internet, Module-5 Knowledge Resources on the Internet, Module-6 Computer Localization

Introduction to Software Quality
Gerard O’Regan

About the Book: In order to maintain strong levels customer satisfaction and loyalty, software developers face considerable pressure to meet expectations for high-quality software products that are consistently delivered on time.

Introduction to Software Quality describes the approaches used by software engineers to build quality into their software. The fundamental principles of software quality management and software process improvement are discussed in detail, with a particular focus on the capability maturity model integration (CMMI) framework.

Topics and features:
- Includes review questions at the end of each chapter
- Covers both theory and practice, in addition to providing guidance on applying the theory in an industrial environment
- Examines all aspects of the software development process, including project planning and tracking, software lifecycles, software inspections and testing, configuration management, and software quality assurance
- Provides detailed coverage of software metrics and problem solving
- Describes SCAMPI appraisals and how they form part of the continuous improvement cycle
- Presents an introduction to formal methods and the Z specification language, which are important in the safety critical field
- Discusses UML, which is used to describe the architecture of the system
- Reviews the history of the field of software quality, highlighting the pioneers who made key contributions to this area

This clearly written and easy-to-follow textbook will be invaluable to students of computer science who wish to learn how to build high-quality and reliable software on time and on budget. Software engineers, quality professionals and software managers in industry will also find the book to be a useful tool for self-study.


Information Security Handbook
Hunter, John M.

About the Book: Aimed primarily at final year undergraduate courses and MSc courses on Information Systems, Management of Information Systems and Design of Information Systems, this textbook aims to provide answers to five questions; What is security? What are the security problems particular to an IT system? What can be done to reduce the security risks associated with such a system? In a given situation, what are the appropriate security countermeasures? How should one set about procuring an information system with security implications?

It looks at the different goals organisations might have in employing security techniques (availability, integrity, confidentiality, exclusivity) and which technique is best suited to achieving each goal. With guidelines appropriate for the protection of both conventional commercial and military systems, An Information Security Handbook will be of interest to computer system managers and administrators in any commercial or government organisation.

About the Book: Since the advent of computers, individuals and organisations increasingly process information digitally. This has led to the study of Informatics, which has become essential for every student irrespective of the field of specialisation. Informatics encompasses the study of systems and tools for the processing, transmission and access of information, which necessitate acquiring basic knowledge about computers, hardware, software, networking and networks, online access of information sources and the structure and functions of the Internet.

Contents: Module-1 Informatics, Module-2 Basic Hardware, Module-3 Software, Module-4 Networking and the Internet, Module-5 Knowledge Resources on the Internet, Module-6 Computer Localization
Learn Tally.ERP 9

Rajesh Chheda
Obaid Motiwala

About the Book: Computerised Accounting has replaced the manual accounting system. Today, for an organization to run smoothly, computerised accounting plays a very important role. Though there are several softwares available for computerised accounting but Tally.ERP 9 is still one of the most widely used and popular accounting software in India.

This book explains Data Entry, Reporting and Tax Management with Tally.ERP 9 it also covers new features of Tally.ERP 9. Students, Accountants, Professionals and, Businessman's can use this book as a simple guide for learning Tally.ERP 9

Contents:
- Introduction to Accounting - Main Screen of Tally.ERP 9
- Function Keys in Tally - Company Creation in Tally.ERP 9
- Transactions - Banking in Tally.ERP 9
- Interest Calculation in Tally.ERP 9
- Order Processing - Point of Sales (POS) - Split and Consolidation of Tally Data
- Import and Export of Tally Data - E-Mail and Uploading from Tally.ERP 9
- Miscellaneous - MIS in Tally - Payroll in Tally.ERP 9
- Implementation of Service Tax in Tally.ERP 9
- Implementation of Value Added Tax (VAT) in Tally.ERP 9
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- F:12 Configuration - Reporting in Tally
- Printing from Tally

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Mathematics For Computer Graphics

Vince

Contents:
- Preface
- Mathematics
- Numbers
- Algebra
- Trigonometry
- Cartesian Coordinates
- Vectors
- Transformation
- Interpolation
- Curves and Patches
- Analytic Geometry
- Barycentric coordinates
- Worked Examples
- Conclusion
- References
- Index

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Moving into Mass Customization

Claus Rautenstrauch
Ralph Seelmann Eggebert
Klaus Turowski

About the Book: Mass Customization leads the strategy of today’s well succeeded companies. It indulges the customer with the so long yearned for product and/or service that exactly fits his desires and specifications. This book compiles a hand-selected variety of testimonies from Mass Customization experts worldwide with different experiences both on an academic research basis as well as on practical case studies. This diversity makes it a compulsory guide to use in any enterprise throughout the world that wants to take its business into new and more ambitious dimensions. Furthermore, its contents are structured in a way that will help everyone that wants to learn, teach or put into practice the concepts of Mass Customization.

Contents:
- Part I: THE STRATEGY OF MASS CUSTOMIZATION
- Part II: PREPARATION AND IMPLEMENTATION
- Part III: A VALUE CHAIN

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Mobility Management and Quality of Service for Heterogeneous Networks

Demetres D. Kouvatsos

About the Book: Considerable attention is currently devoted towards quality of service (QoS) issues and mobility challenges such as those arising from the integration of the integration of the next and future generation Internets over terrestrial digital TV, mobile user location management and multi service heterogeneous networks. Of particular importance is the convergence of wireless networks supported by internetworking and the evolution of wireless access and switching technologies.

Mobility Management and Quality of Service for Heterogeneous Networks presents recent advances in networks of diverse technology and the internet reflecting state of the art research achievements in mobility and access network management, performance enhancement, optimal admission control and methodologies for QoS.

Technical topics discussed in the book include:
- Mobility Management;
- Optimal Admission Control;
- Performance Modelling Studies;
- Access Network Coverage;
- Quality of Service (QoS);

Mobility Management and Quality of Service for Heterogeneous Networks contains extended/revised research papers, which have their roots in the series of the HET-NETs International Working Conferences focusing on the 'Performance Modelling and Evaluation of Heterogeneous Networks' staged under the auspices of the EU Networks of Excellence Euro-NGI and Euro-FGI.

This book is ideal for personnel in computer/communication industries as well as academic staff and master/research students in computer science, operational research, electrical engineering and telecommunication systems.

Contents: Preface; Participants of the Reviewing Process; - Mobility Management - Optimal Admission Control - Performance Modelling Studies - Access Networks Coverage - Quality of Service (QoS) Author Index, Subject Index

9788793102132 486 (Hb) 3995.00 River Publishers

A Practical Guide for System Verilog Assertions

Vijayaraghavan, Srikanth, Ramanathan, Meyyappan

About the Book: SystemVerilog language consists of three very specific areas of constructs -- design, assertions and testbench. Assertions add a whole new dimension to the ASIC verification process. Assertions provide a better way to do verification proactively. Traditionally, engineers are used to writing verilog test benches that help simulate their design. Verilog is a procedural language and is very limited in capabilities to handle the complex Asic's built today. SystemVerilog assertions (SVA) are a declarative and temporal language that provides excellent control over time and parallelism. This provides the designers a very strong tool to solve their verification problems. While the language is built solid, the thinking is very different from the user's perspective when compared to standard verilog language. The concept is still very new and there is not enough expertise in the field to adopt this methodology and be successful. While the language has been defined very well, there is no practical guide that shows how to use the language to solve real verification problems. This book will be the practical guide that will help people to understand this new methodology.

"Today's SoC complexity coupled with time-to-market and first-silicon success pressures make assertion based verification a requirement and this book points the way to effective use of assertions."

Satish S. Iyengar, Director, ASIC Engineering, Crimson Microsystems, Inc.

"This book benefits both the beginner and the more advanced users of SystemVerilog Assertions (SVA). First by introducing the concept of Assertion Based Verification (ABV) in a simple to understand way, then by discussing the myriad of ideas in a broader scope that SVA can accommodate. The many real life examples, provided throughout the book, are especially useful."

Inwan Sie, Director, IC Design, ESS Technology, Inc.

"SystemVerilog Assertions is a new language that can find and isolate bugs early in the design cycle. This book shows how to verify complex protocols and memories using SVA with seeral examples. This book is a good reference guide for both design and verification engineers."

Derick Lin, Senior Director, Engineering, Airgo Networks, Inc.

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Practical Text Mining with Perl

Roger Bilisoly

About the Book: This book is devoted to the fundamentals of text mining using Perl, an open-source programming tool that is freely available via the Internet (www.perl.org). It covers mining ideas from several perspectives—statistics, data mining, linguistics, and information retrieval—and provides readers with the means to successfully complete text mining tasks on their own.

The book begins with an introduction to regular expressions, a text pattern methodology, and quantitative text summaries, all of which are fundamental tools of analyzing text. Then, it builds upon this foundation to explore:

- Probability and texts, including the bag-of-words model
- Information retrieval techniques such as the TF-IDF similarity measure
- Concordance lines and corpus linguistics
- Multivariate techniques such as correlation, principal components analysis, and clustering
- Perl modules, German, and permutation tests

Each chapter is devoted to a single key topic, and the author carefully and thoughtfully introduces mathematical concepts as they arise, allowing readers to learn as they go without having to refer to additional books. The inclusion of numerous exercises and worked-out examples further complements the book’s student-friendly format.

Practical Text Mining with Perl is ideal as a textbook for undergraduate and graduate courses in text mining and as a reference for a variety of professionals who are interested in extracting information from text documents.


9788126554218 | 310 (Hb) | ₹ 3995.00 | Wiley
Performance Modelling and Analysis of Heterogeneous Networks

Demetres Kouvatsos

About the Book: During the last Decade, a considerable amount of effort has been devoted, both in industry and academia, into performance modelling, evaluation and prediction of convergent multiservice heterogeneous networks, such as mobile, wireless and optical networks, towards the design and dimensioning of the next and future generation Internets.

Performance Modelling and Analysis of Heterogeneous Networks presents recent advances in networks of diverse technology reflecting the state-of-the-art technology and research achievements in performance modelling analytic evaluation methodologies and applications. Technical topics addressed in the book include:

1. Multiservice Switching Networks
2. Wireless Ad Hoc Networks
3. Wireless Sensor Networks
4. Wireless Cellular Networks
5. Optical Networks

Performance Modelling and Analysis of Heterogeneous Networks includes extended/revised research papers, which have their roots in the series of the HET-NETs International Working Conferences on the ‘Performance Modelling and Evaluation of Heterogeneous Networks’ staged under the auspices of the EU Networks of Excellence Euro-NGI and Euro-FGI.

The book is ideal for personnel in computer/communication industries as well as academic staff and master/research students in computer science, operational research, electrical engineering and telecommunication systems and the Internet.


Contents: Preface; Participants of the Reviewing Process; Multiservice Switching Networks; Wireless Ad Hoc Networks; Wireless Sensor Networks; Wireless Cellular Networks; Optical Networks; Author Index; Keyword Index.

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Software Engineering

Vaclav Rajlich

About the Book: Software Engineering: The Current Practice helps you learn basic software engineering skills and explore recent developments in the field, including software changes and iterative processes of software development.

After a historical overview and an introduction to software technology and models, the book discusses the software change and its phases, including concept location, impact analysis, refactoring, actualization, and verification. It then covers the most common iterative processes: agile, directed, and centralized processes. The text also journeys through the initial development of software from scratch to the final stages that lead toward software closedown.

Features:

- Emphasizes iterative processes of contemporary software engineering practice, including agile processes
- Uses object-oriented technology and UML to illustrate software engineering concepts
- Describes the phases of software change, including concept location, impact analysis, refactoring, unit testing, and frequent builds
- Shows how to deal with existing legacy code and develop new programs from scratch


9781439841228 316 (Hb) ₹ 2995.00 CRC Press
Text Mining

Predictive Methods for Analyzing Unstructured Information

Weiss, S.M.
Indurkhy, N.
Zhang, T.
Damerau, F.

About the Book: One consequence of the pervasive use of computers is that most documents originate in digital form. Text mining—the process of searching, retrieving, and analyzing unstructured, natural-language text—is concerned with how to exploit the textual data embedded in these documents.

Text Mining presents a comprehensive introduction and overview of the field, integrating related topics (such as artificial intelligence and knowledge discovery and data mining) and providing practical advice on how readers can use text-mining methods to analyze their own data. Emphasizing predictive methods, the book unifies all key areas in text mining: preprocessing, text categorization, information search and retrieval, clustering of documents, and information extraction. In addition, it identifies emerging directions for those looking to do research in the area.

Some background in data mining is beneficial, but not essential.

This authoritative and highly accessible text, written by a team of authorities on text mining, develops the foundation concepts, principles, and methods needed to expand beyond structured, numeric data to automated mining of text samples. Researchers, computer scientists, and advanced undergraduates and graduates with work and interests in data mining, machine learning, databases, and computational linguistics will find the work an essential resource.

Contents: Preface 1 Overview of Text Mining 2 From Textual Information to Numerical Vectors 3 Using Text for Prediction 4 Information Retrieval and Text Mining 5 Finding Structure in a Document Collection 6 Looking for Information in Documents 7 Case Studies 8 Emerging Directions, Appendix: Software Notes, References, Author Index, Subject Index

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Verilog HDL: Digital Design and Modeling

Joseph Cavanagh

**About the Book:** Emphasizing the detailed design of various Verilog projects, Verilog HDL: Digital Design and Modeling offers students a firm foundation on the subject matter. The textbook presents the complete Verilog language by describing different modeling constructs supported by Verilog and by providing numerous design examples and problems in each chapter. Examples include counters of different moduli, half adders, full adders, a carry lookahead adder, array multipliers, different types of Moore and Mealy machines, and much more. The text also contains information on synchronous and asynchronous sequential machines, including pulse-mode asynchronous sequential machines.

In addition, it provides descriptions of the design module, the test bench module, the outputs obtained from the simulator, and the waveforms obtained from the simulator illustrating the complete functional operation of the design. Where applicable, a detailed review of the topic’s theory is presented together with logic design principles, including state diagrams, karnaugh maps, equations, and the logic diagram.

Verilog HDL: Digital Design and Modeling is a comprehensive, self-contained, and inclusive textbook that carries all designs through to completion, preparing students to thoroughly understand this popular hardware description language (HDL).


Verilog and System Verilog Gotchas: 101 Common Coding Errors and How to Avoid Them

Stuart Sutherland

**About the Book:** This book will help engineers write better Verilog/System Verilog design and verification code as well as deliver digital designs to market more quickly. It shows over 100 common coding mistakes that can be made with the Verilog and SystemVerilog languages. Each example explains in detail the symptoms of the error, the languages rules that cover the error, and the correct coding style to avoid the error. The book helps digital design and verification engineers to recognize, and avoid, these common coding mistakes. Many of these errors are very subtle, and can potentially cost hours or days of lost engineering time trying to find and debug them.

**Special Indian Price**

Verilog HDL: Digital Design and Modeling

Joseph Cavanagh

Verilog and System Verilog Gotchas: 101 Common Coding Errors and How to Avoid Them

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