Software Engineering By Nasib Singh Gill

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Simpson's Forensic Medicine - Jason Payne-James 2011-08-26
This fully updated thirteenth edition of Simpson's Forensic Medicine remains a classic introductory text to the field. Continuing its tradition of preparing the next generation of forensic practitioners, it presents essential concepts in the interface between medicine and the law. Twenty-four chapters cover basic science, toxicology, forensic odont
Software Engineering - Nasib Singh Gill
Each and every chapter covers the contents up to a reasonable depth necessary for the intended readers in the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.
Substrate Analysis for Effective Biofuels Production - Neha Srivastava 2020-01-31
As a substrate, cellulose plays a crucial role in the biomass-based biofuel production process, and is essential to enzyme and sugar production. Accordingly, ensuring maximum availability of cellulose for enzyme production and bioconversion for sugar generation is one of the major challenges for sustainable biofuels production. To date there has been extensive research on biofuel production using lignocellulosic biomass, but there is a huge gap when it comes to the critical analysis of cellulose content, structural feasibility, availability, and economic processing, so that it can be converted for enzyme and fuel production at low cost. Consequently, this book discusses the availability of lignocellulosic substrate for biofuel production in light of the challenges that the biofuels industry is currently facing. After identifying the major substrate selection challenges for the practical biofuel production process, the book addresses said challenges by focusing on various issues such as: potential substrates that have high cellulosic content, structural feasibility, and low-cost & effective processing to remedy the structural complexity of biomass structure and create added value. In addition, it covers recent advancements in cellulase production and outlines future prospects. Given its scope, it offers a valuable guide for research students and industry practitioners alike.
Computing Fundamentals and Programming in C - Nasib Singh Gill 2015
The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style, The language used in the book is lucid, is easy to understand, and facilities easy grasping of concepts, The chapter have

been logically arranged in sequence, The book is written in a reader-friendly manner both the students and the teachers, Most of the contents presented in the book are in the form of bullets, organized sequentially. This form of presentation, rather than in a paragraph form, facilities the reader to view, understand and remember the points better, The explanation is supported by diagrams, pictures and images wherever required, Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming, Concepts of pointers, structures, Union and file management have been extensively detailed to help advance learners, Adequate exercises have been given at the end of the every chapter, Pedagogy followed for sequencing the contents on C programming supported by adequate programming examples is likely to help the reader to become proficient very soon, 200 problems on C programming & their solutions, 250 Additional descriptive questions on C programming.

Essentials Of Computer Science & Network Technology - Nasib Singh Gill 2000

Proceedings of International Joint Conference on Advances in Computational Intelligence - Mohammad Shorif Uddin 2021-05-17

This book gathers outstanding research papers presented at the International Joint Conference on Advances in Computational Intelligence (IJCACI 2020), organized by Daffodil International University (DIU) and Jahangirnagar University (JU) in Bangladesh and South Asian University (SAU) in India. These proceedings present novel contributions in the areas of computational intelligence and offer valuable reference material for advanced research. The topics covered include collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing.

Software Engineering Fundamental - Alind Saxena 2021-03-31

The aim of this book is to refresh you from software engineering fundamental concepts, basic day to day Definitions / Terminologies, Development Models, Encompassing Specifications, Function Oriented Modelling, Object Oriented Modelling, Dynamic Modelling, Analysis, Design, Coding, Testing, Implementation, Metrics, PERT Charts, Gantt Charts, Project Management, Software Configuration Management, Software Maintenance, Software Quality Assurance etc. You will utilize it during the period of learning and even after that. It will give the glimpse of array of questions and answers. It will induce the capacity and capability and confidence in you to do real life applications. It is hoped that you will drink the water not for you only but will provide to others. A job teaches us to obey while expertise and perfection are the result of our own efforts. Do practice with software paradigms (Structured Programming, Modular Programming, Objects Oriented Programming etc.) and measure the same to become Software Engineer.

Privacy-Preserving Data Mining - Charu C. Aggarwal 2008-06-10

Advances in hardware technology have increased the capability to store and record personal data. This has caused concerns that personal data may be abused. This book proposes a number of techniques to perform the data mining tasks in a privacy-preserving way. This edited volume contains surveys by distinguished researchers in the privacy field. Each survey includes the key research content as well as future research directions of a particular topic in privacy. The book is designed for researchers, professors, and advanced-level students in computer science, but is also suitable for practitioners in industry.

The Text Mining Handbook - Ronen Feldman 2007

Publisher description

Software Reengineering - Robert S. Arnold 1993

Software -- Software Engineering.

Designing, Engineering, and Analyzing Reliable and Efficient Software - Singh, Hardeep 2013-02-28

Due to the role of software systems in safety-critical applications and in the satisfaction of customers and organizations, the development of efficient software engineering is essential. Designing, Engineering, and Analyzing Reliable and Efficient Software discusses and analyzes various designs, systems, and advancements in software engineering. With its coverage on the integration of mathematics, computer science, and

practices in engineering, this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners, professors and students in these fields of study.
Security, Privacy, and Anonymity in Computation, Communication, and Storage - Guojun Wang 2019-07-10
This book constitutes the refereed proceedings of six symposiums and two workshops co-located with SpaCCS 2019, the 12th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage. The 26 full papers were carefully reviewed and selected from 75 submissions. This year's symposiums and workshops are: SPIoT 2019 – Security and Privacy of Internet of Things; TSP 2019 – Trust, Security and Privacy for Emerging Applications; SCS 2019 – Sensor-Cloud Systems; UbiSafe 2019 – UbiSafe Computing; ISSR 2019 – Security in e-Science and e-Research; CMRM 2019 – Cybersecurity Metrics and Risk Modeling.
Component-Based Software Testing with UML - Hans-Gerhard Gross 2005
Component-based software development regards software construction in terms of conventional engineering disciplines where the assembly of systems from readily-available prefabricated parts is the norm. Because both component-based systems themselves and the stakeholders in component-based development projects are different from traditional software systems, component-based testing also needs to deviate from traditional software testing approaches. Gross first describes the specific challenges related to component-based testing like the lack of internal knowledge of a component or the usage of a component in diverse contexts. He argues that only built-in contract testing, a test organization for component-based applications founded on building test artifacts directly into components, can prevent catastrophic failures like the one that caused the now famous ARIANE 5 crash in 1996. Since building testing into components has implications for component development, built-in contract testing is integrated with and made to complement a model-driven development method. Here UML models are used to derive the testing architecture for an application, the testing interfaces and the component testers. The method also provides a process and guidelines for modeling and developing these artifacts. This book is the first comprehensive treatment of the intricacies of testing component-based software systems. With its strong modeling background, it appeals to researchers and graduate students specializing in component-based software engineering. Professionals architecting and developing component-based systems will profit from the UML-based methodology and the implementation hints based on the XUnit and JUnit frameworks.
National Conference on Frontiers in Applied and Computational Mathematics (FACM-2005) - Harvir Singh Kasana 2005

Software Engineering: A Practitioner's Approach - Roger Pressman 2014-01-23
For almost three decades, Roger Pressman's Software Engineering: A Practitioner's Approach has been the world's leading textbook in software engineering. The new eighth edition represents a major restructuring and update of previous editions, solidifying the book's position as the most comprehensive guide to this important subject. The eighth edition of Software Engineering: A Practitioner's Approach has been designed to consolidate and restructure the content introduced over the past two editions of the book. The chapter structure will return to a more linear presentation of software engineering topics with a direct emphasis on the major activities that are part of a generic software process. Content will focus on widely used software engineering methods and will de-emphasize or completely eliminate discussion of secondary methods, tools and techniques. The intent is to provide a more targeted, prescriptive, and focused approach, while attempting to maintain SEPA's reputation as a comprehensive guide to software engineering. The 39 chapters of the eighth edition are organized into five parts - Process, Modeling, Quality Management, Managing Software Projects, and Advanced Topics. The book has been revised and restructured to improve pedagogical flow and emphasize new and important software engineering processes and practices.
Software Developement Techniques Using Data Structure Based on 'C' -

Dr. Anand K. Tripathi 2010

Enterprise Collaboration - David M. Levermore 2006-11-24
This book goes beyond the discussion of global databases and presents a general Enterprise Resources Market model to facilitate the management and integration of enterprise information resources in a cooperating mode. It is the first book to analyze the problem from the perspective of information management and to present a solution for a key aspect of the cooperation problem—on-demand information exchange.
A Classical Approach to Artificial Intelligence - Munesh Chandra Trivedi 2014
There are many books available in the market on the proposed topic but none of them can be termed as comprehensive. Besides, students face many problems in understanding the language of this books. Keeping these points in mind, Artificial Intelligence was prepared, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.
Handbook on Clostridia - Peter Duerre 2005-03-29
Clostridia is one of the largest bacterial genera with an enormous potential for biotechnical and medical applications. Despite growing scientific, medical, and industrial interest, information on basic methods, biochemical fundamentals, clinical practice, industrial applications, and novel developments remains scattered in a variety of research ar
PANKAJ JALOTE'S SOFTWARE ENGINEERING: A PRECISE APPROACH - Pankaj Jalote 2010
The goal of this book is to introduce to the students a limited number of concepts and practices which will achieve the following two objectives: Teach the student the skills needed to execute a smallish commercial project. Provide the students necessary conceptual background for undertaking advanced studies in software engineering, through organized courses or on their own. This book focuses on key tasks in two dimensions - engineering and project management - and discusses concepts and techniques that can be applied to effectively execute these tasks. The book is organized in a simple manner, with one chapter for each of the key tasks in a project. For engineering, these tasks are requirements analysis and specification, architecture design, module level design, coding and unit testing, and testing. For project management, the key tasks are project planning and project monitoring and control, but both are discussed together in one chapter on project planning as even monitoring has to be planned. In addition, one chapter clearly defines the problem domain of Software Engineering, and another Chapter discusses the central concept of software process which integrates the different tasks executed in a project. Each chapter opens with some introduction and clearly lists the chapter goals, or what the reader can expect to learn from the chapter. For the task covered in the chapter, the important concepts are first discussed, followed by a discussion of the output of the task, the desired quality properties of the output, and some practical methods and notations for performing the task. The explanations are supported by examples, and the key learnings are summarized in the end for the reader. The chapter ends with some self-assessment exercises. Finally, the book contains a question bank at the end which lists out questions with answers from major universities.
Artificial Intelligence Methods For Software Engineering - Meir Kalech 2021-06-15
Software is an integral part of our lives today. Modern software systems are highly complex and often pose new challenges in different aspects of Software Engineering (SE).Artificial Intelligence (AI) is a growing field in computer science that has been proven effective in applying and developing AI techniques to address various SE challenges.This unique compendium covers applications of state-of-the-art AI techniques to the key areas of SE (design, development, debugging, testing, etc).All the materials presented are up-to-date. This reference text will benefit researchers, academics, professionals, and postgraduate students in AI, machine learning and software engineering.Related Link(s)
Fundamentals of Business Statistics, 2nd Edition - J.K. Sharma
Fundamentals of Business Statistics is intended to serve as a core textbook for undergraduate students of BBA, BCA, B Com and CA, ICWA

and those who need to understand the basic concepts of business statistics and apply results directly to real-life business problems. The book also suits the requirement of students of AMIE, who need both theoretical and practical knowledge of business statistics. The second edition has been extensively revised with the objective of enhancing and strengthening the conceptual, as well as practical knowledge of readers about various techniques of business statistics. Its easy-to-understand approach will enable readers to develop the required skills and apply statistical techniques to decision-making problems. With a completely new look and feel, this book will facilitate the teaching of business statistics techniques as well as enhance the learning experience for students. New in This Edition • Completely revised and reorganized text to make explanations more cogent through relevant and interesting examples. • Large number of new business-oriented solved as well as practice problems representing the various business statistics techniques. • Explanations well illustrated with numerous interesting and varied business-oriented examples. • Pedagogical features like Conceptual Questions, Self Practice Problems with Hints and Answers. • Complete conformity to the latest trends of questions appearing in universities and professional examinations.

Communication Systems - 2012

Component-Based Software Engineering - Umesh Kumar Tiwari 2020-11-18

This book focuses on a specialized branch of the vast domain of software engineering: component-based software engineering (CBSE). Component-Based Software Engineering: Methods and Metrics enhances the basic understanding of components by defining categories, characteristics, repository, interaction, complexity, and composition. It divides the research domain of CBSE into three major sub-domains: (1) reusability issues, (2) interaction and integration issues, and (3) testing and reliability issues. This book covers the state-of-the-art literature survey of at least 20 years in the domain of reusability, interaction and integration complexities, and testing and reliability issues of component-based software engineering. The aim of this book is not only to review and analyze the previous works conducted by eminent researchers, academicians, and organizations in the context of CBSE, but also suggests innovative, efficient, and better solutions. A rigorous and critical survey of traditional and advanced paradigms of software engineering is provided in the book. Features: In-interactions and Out-Interactions both are covered to assess the complexity. In the context of CBSE both white-box and black-box testing methods and their metrics are described. This work covers reliability estimation using reusability which is an innovative method. Case studies and real-life software examples are used to explore the problems and their solutions. Students, research scholars, software developers, and software designers or individuals interested in software engineering, especially in component-based software engineering, can refer to this book to understand the concepts from scratch. These measures and metrics can be used to estimate the software before the actual coding commences.

Proceedings of the National Conference on Computing for Nation Development - 2007

Recent Trends in Mycological Research - Ajar Nath Yadav 2021-02-04

Fungi range from being microscopic, single-celled yeasts to multicellular and heterotrophic in nature. Fungal communities have been found in vast ranges of environmental conditions. They can be associated with plants epiphytically, endophytically, or rhizospherically. Extreme environments represent unique ecosystems that harbor novel biodiversity of fungal communities. Interest in the exploration of fungal diversity has been spurred by the fact that fungi perform numerous functions integral in sustaining the biosphere, ranging from nutrient cycling to environmental detoxification, which involves processes like augmentation, supplementation, and recycling of plant nutrients - a particularly important process in sustainable agriculture. Fungal communities from natural and extreme habitats help promote plant growth, enhance crop yield, and enhance soil fertility via direct or indirect plant growth

promoting (PGP) mechanisms of solubilization of phosphorus, potassium, and zinc, production of ammonia, hydrogen cyanides, phytohormones, Fe-chelating compounds, extracellular hydrolytic enzymes, and bioactive secondary metabolites. These PGP fungi could be used as biofertilizers, bioinoculants, and biocontrol agents in place of chemical fertilizers and pesticides in eco-friendly manners for sustainable agriculture and environments. Along with agricultural applications, medically important fungi play a significant role for human health. Fungal communities are useful for sustainable environments as they are used for bioremediation which is the use of microorganisms' metabolism to degrade waste contaminants (sewage, domestic, and industrial effluents) into non-toxic or less toxic materials by natural biological processes. Fungi could be used as mycoremediation for the future of environmental sustainability. Fungi and fungal products have the biochemical and ecological capability to degrade environmental organic chemicals and to decrease the risk associated with metals, semi-metals, and noble metals either by chemical modification or by manipulating chemical bioavailability. The two volumes of Recent Trends in Mycological Research aim to provide an understanding of fungal communities from diverse environmental habitats and their potential applications in agriculture, medical, environments and industry. The books are useful to scientists, researchers, and students involved in microbiology, biotechnology, agriculture, molecular biology, environmental biology and related subjects.

Structured Testing - Thomas J. McCabe 1983

“This tutorial will present a collection of papers that describes a new methodology that has become known as structured testing” -- Preface.

Proceedings of International Conference on Trends in Computational and Cognitive Engineering - Phool Singh 2020-09-30

This book presents various computational and cognitive modeling approaches in the areas of health, education, finance, theenvironment, engineering, commerce and industry. Gathering selected conference papers presented atthe International Conference on Trends in Computational and Cognitive Engineering (TCCE), it sharescutting-edge insights and ideas from mathematicians, engineers, scientists and researchers anddiscusses fresh perspectives on problem solving in a range of research areas.

Semantic Web Services - Dieter Fensel 2011-04-28

A paradigm shift is taking place in computer science: one generation ago, we learned to abstract from hardware to software, now we are abstracting from software to serviceware implemented through service-oriented computing. Yet ensuring interoperability in open, heterogeneous, and dynamically changing environments, such as the Internet, remains a major challenge for actual machine-to-machine integration. Usually significant problems in aligning data, processes, and protocols appear as soon as a specific piece of functionality is used within a different application context. The Semantic Web Services (SWS) approach is about describing services with metadata on the basis of domain ontologies as a means to enable their automatic location, execution, combination, and use. Fensel and his coauthors provide a comprehensive overview of SWS in line with actual industrial practice. They introduce the main sociotechnological components that ground the SWS vision (like Web Science, Service Science, and service-oriented architectures) and several approaches that realize it, e.g. the Web Service Modeling Framework, OWL-S, and RESTful services. The real-world relevance is emphasized through a series of case studies from large-scale R&D projects and a business-oriented proposition from the SWS technology provider Seekda. Each chapter of the book is structured according to a predefined template, covering both theoretical and practical aspects, and including walk-through examples and hands-on exercises. Additional learning material is available on the book website www.swsbook.org. With its additional features, the book is ideally suited as the basis for courses or self-study in this field, and it may also serve as a reference for researchers looking for a state-of-the-art overview of formalisms, methods, tools, and applications related to SWS.

Software Engineering 3 - Dines Bjørner 2006-06-29

The final installment in this three-volume set is based on this maxim: "Before software can be designed its requirements must be well

understood, and before the requirements can be expressed properly the domain of the application must be well understood." The book covers the process from the development of domain descriptions, through the derivation of requirements prescriptions from domain models, to the refinement of requirements into software architectures and component design.

Rigorous Software Development - José Bacelar Almeida 2011-01-04

The use of mathematical methods in the development of software is essential when reliable systems are sought; in particular they are now strongly recommended by the official norms adopted in the production of critical software. Program Verification is the area of computer science that studies mathematical methods for checking that a program conforms to its specification. This text is a self-contained introduction to program verification using logic-based methods, presented in the broader context of formal methods for software engineering. The idea of specifying the behaviour of individual software components by attaching contracts to them is now a widely followed approach in program development, which has given rise notably to the development of a number of behavioural interface specification languages and program verification tools. A foundation for the static verification of programs based on contract-annotated routines is laid out in the book. These can be independently verified, which provides a modular approach to the verification of software. The text assumes only basic knowledge of standard mathematical concepts that should be familiar to any computer science student. It includes a self-contained introduction to propositional logic and first-order reasoning with theories, followed by a study of program verification that combines theoretical and practical aspects - from a program logic (a variant of Hoare logic for programs containing user-provided annotations) to the use of a realistic tool for the verification of C programs (annotated using the ACSL specification language), through the generation of verification conditions and the static verification of runtime errors.

INSTANT NOTES FOR BIOPROCESS TECHNOLOGY - Dr. L. KRISHNASAMY 2022-03-03

Bioprocess Technology combines concepts and ideas from biology, engineering, materials science, and clinical processes. The industrial use of biological processes utilising living cells or their components to achieve desired substrate transformations is known as bioprocess technology. Bioprocesses provide several benefits over standard chemical processes, including the need for moderate reaction conditions, increased specificity and efficiency, and the production of renewable by-products (biomass). Bioprocesses' potential has been broadened and extended thanks to the introduction of recombinant DNA technology. Bioprocesses are now widely employed in a variety of commercial biotechnology disciplines, including the synthesis of enzymes (used in food processing and waste management, for example) and antibiotics. Bioprocesses may find applications in other sectors where chemical processes are now applied as methodologies and equipment improve. Many of biotechnology's potential applications are created through laboratory processes that yield very modest quantities of valuable chemicals. As bioprocess technology advances, particularly separation and purification techniques, commercial firms will be able to produce these substances in large quantities at a low cost, allowing them to be used in medicalresearch, food processing, agriculture, pharmaceutical development, waste management, and a variety of other fields of science and industry.

Successful Software Reengineering - Valenti, Salvatore 2001-07-01

Software process reengineering has become highly visible over the past several years. Efforts are being undertaken by organizations of all types and sizes as they attempt to deal with the challenges of quality, complexity and competitiveness. As an emerging technology, the effectiveness and potential impact of process improvement efforts have been debated, but not fully tested or validated. At the very core of this technological evolution is the idea that the quality of a software product is highly dependent on the quality of the process used for its development. Successful Software Reengineering examines the most recent theories, models, approaches and processes involved with the concept of software improvement and reengineering.

Software Engineering - Ian Sommerville 2014

Modeling and Processing for Next-Generation Big-Data Technologies - Fatos Xhafa 2014-11-04
This book covers the latest advances in Big Data technologies and provides the readers with a comprehensive review of the state-of-the-art in Big Data processing, analysis, analytics, and other related topics. It presents new models, algorithms, software solutions and methodologies, covering the full data cycle, from data gathering to their visualization and interaction, and includes a set of case studies and best practices. New research issues, challenges and opportunities shaping the future agenda in the field of Big Data are also identified and presented throughout the book, which is intended for researchers, scholars, advanced students, software developers and practitioners working at the forefront in their field.
The Global Indian - Gurmukh Singh 2003
This glossy coffee-table book captures in vivid detail the rise of the Sikhs as a global community. The Sikhs started migrating to various corners of the globe from about the end of the 19th century. However, today they occupy a place of pride in their adopted lands owing to their sterling success in fields as diverse as politics, business, entertainment and administration. The lucid style of writing, combined with exhaustive research conducted across various parts of the world, makes this book an important tool in assessing the success of this enterprising and global community.
Object-oriented Metrics - Brian Henderson-Sellers 1996
Object-oriented (OO) metrics are an integral part of object technology -- at the research level and in commercial software development projects. This book offers theoretical and empirical tips and facts for creating an OO complexity metrics (measurement) program, based on a review of existing research from the last several years. KEY TOPICS: Covers moving through object-oriented concepts as they related to managing the project lifecycle; the framework in which metrics exist; structural complexity metrics for traditional systems; OO product metrics; and current industrial applications. MARKET: For software developers, programmers, and managers.
Software Engineering - K. K. Aggarwal 2008-01-01

Digital Design and Computer Organisation - D. Nasib S. Gill 2008-12
Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems. It summarizes the tools of logic design and their mathematical basis, along with in depth coverage of combinational and sequential circuits. The book includes an accompanying CD that includes the majority of circuits highlighted in the text, delivering you hands-on experience in the simulation and observation of circuit functionality. These circuits were designed and tested with a user-friendly Electronics Workbench package (Multisim Textbook Edition) that enables your progression from truth tables onward to more complex designs. This volume differs from traditional digital design texts by providing a complete design of an AC-based CPU, allowing you to apply digital design directly to computer architecture. The book makes minimal reference to electrical properties and is vendor independent, allowing emphasis on the general design principles.
Software Quality and Productivity - M. Lee 2013-04-17
As the world becomes increasingly dependent on the use of computers, the need for quality software which can be produced at reasonable cost increases. This IFIP proceedings brings together the work of leading researchers and practitioners who are concerned with the efficient production of quality software.