

Computer Science An Overview 12th Edition By Glenn

In 1936, when he was just twenty-four years old, Alan Turing wrote a remarkable paper in which he outlined the theory of computation, laying out the ideas that underlie all modern computers. This groundbreaking and powerful theory now forms the basis of computer science. In Turing's Vision, Chris Bernhardt explains the theory, Turing's most important contribution, for the general reader. Bernhardt argues that the strength of Turing's theory is its simplicity, and that, explained in a straightforward manner, it is eminently understandable by the nonspecialist. As Marvin Minsky writes, "The sheer simplicity of the theory's foundation and extraordinary short path from this foundation to its logical and surprising conclusions give the theory a mathematical beauty that alone guarantees it a permanent place in computer theory." Bernhardt begins with the foundation and systematically builds to the surprising conclusions. He also views Turing's theory in the context of mathematical history, other views of computation (including those of Alonzo Church), Turing's later work, and the birth of the modern computer. In the paper, "On Computable Numbers, with an Application to the Entscheidungsproblem," Turing thinks carefully about how humans perform computation, breaking it down into a sequence of steps, and then constructs theoretical machines capable of performing each step. Turing wanted to show that there were problems that were beyond any

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computer's ability to solve; in particular, he wanted to find a decision problem that he could prove was undecidable. To explain Turing's ideas, Bernhardt examines three well-known decision problems to explore the concept of undecidability; investigates theoretical computing machines, including Turing machines; explains universal machines; and proves that certain problems are undecidable, including Turing's problem concerning computable numbers. A guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The emergence of powerful, always-on cloud utilities has transformed how consumers interact with information technology, enabling video streaming, intelligent personal assistants, and the sharing of content. Businesses, too, have benefited from the cloud, outsourcing much of their information technology to cloud services. Science, however, has not fully exploited the advantages of the cloud. Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud? Leading computer scientists Ian Foster and Dennis Gannon argue that it can, and in this book offer a guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The book surveys the technology that underpins the cloud, new approaches to technical problems enabled by the cloud, and the concepts required to integrate cloud services into scientific work. It covers managing data in the cloud, and how to program these services; computing in the cloud, from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do

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data analytics; using the cloud as a platform for automating analysis procedures, machine learning, and analyzing streaming data; building your own cloud with open source software; and cloud security. The book is accompanied by a website, Cloud4SciEng.org, that provides a variety of supplementary material, including exercises, lecture slides, and other resources helpful to readers and instructors.

Provides an overview of current research in statistics, numerical computations, artificial intelligence, programming languages, operating systems, database management systems, software methodology, & applications.

An introduction to the field of applied ontology with examples derived particularly from biomedicine, covering theoretical components, design practices, and practical applications. In the era of “big data,” science is increasingly information driven, and the potential for computers to store, manage, and integrate massive amounts of data has given rise to such new disciplinary fields as biomedical informatics. Applied ontology offers a strategy for the organization of scientific information in computer-tractable form, drawing on concepts not only from computer and information science but also from linguistics, logic, and philosophy. This book provides an introduction to the field of applied ontology that is of particular relevance to biomedicine, covering theoretical components of ontologies, best practices for ontology design, and examples of biomedical ontologies in use. After defining an ontology as a representation of the types of entities in a given domain, the book distinguishes between different

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kinds of ontologies and taxonomies, and shows how applied ontology draws on more traditional ideas from metaphysics. It presents the core features of the Basic Formal Ontology (BFO), now used by over one hundred ontology projects around the world, and offers examples of domain ontologies that utilize BFO. The book also describes Web Ontology Language (OWL), a common framework for Semantic Web technologies. Throughout, the book provides concrete recommendations for the design and construction of domain ontologies.

The Systems Approach in Management and Engineering, World War II and After

Twenty Lectures on Algorithmic Game Theory

Learn how hardware and software work-- and how to make them work for you!

Computers, Programmers, and the Politics of Technical Expertise

Cloud Computing for Science and Engineering

Principles of Abstract Interpretation

A new framework for understanding computing: a coherent set of principles spanning technologies, domains, algorithms, architectures, and designs. Computing is usually viewed as a technology field that advances at the breakneck speed of Moore's Law. If we turn away even for a moment, we might miss a game-changing technological breakthrough or an earthshaking theoretical development. This book takes a different perspective, presenting computing as a science governed by fundamental principles that span all technologies.

Computer science is a science of information processes. We need a new language to describe the science, and in this book Peter Denning and Craig Martell offer the great principles framework as just such a language. This is a book about the whole of computing—its algorithms, architectures, and designs. Denning and Martell divide the great principles of computing into six categories: communication,

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computation, coordination, recollection, evaluation, and design. They begin with an introduction to computing, its history, its many interactions with other fields, its domains of practice, and the structure of the great principles framework. They go on to examine the great principles in different areas: information, machines, programming, computation, memory, parallelism, queueing, and design. Finally, they apply the great principles to networking, the Internet in particular.

Great Principles of Computing will be essential reading for professionals in science and engineering fields with a “computational” branch, for practitioners in computing who want overviews of less familiar areas of computer science, and for non-computer science majors who want an accessible entry way to the field.

Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering. This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods.

First-ever comprehensive introduction to the major new subject of quantum computing and quantum information.

This book of readings is a flexible resource for undergraduate and graduate courses in the evolving fields of computer and Internet ethics. Each selection has been carefully chosen for its timeliness and analytical depth and is written by a well-known expert in the field.

*The readings are organized to take students from a discussion on ethical frameworks and regulatory issues to a substantial treatment of the four fundamental, interrelated issues of cyberethics: speech, property, privacy, and security. A chapter on professionalism rounds out the selection. This book makes an excellent companion to *CyberEthics: Morality and Law in Cyberspace, Third Edition* by*

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providing articles that present both sides of key issues in cyberethics.

Wearables, Implantables, Embeddables, Ingestibles

Introduction to Computing

Ideas That Created the Future

A Type Primer

Classic Papers of Computer Science

Sams Teach Yourself Java in 21 Days (Covers Java 11/12)

Computer Science: An Overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field. Accessible to students from all backgrounds, Glenn Brookshear uses a language-independent context to encourage the development of a practical, realistic understanding of the field. An overview of each of the important areas of Computer Science (e.g. Networking, OS, Computer Architecture, Algorithms) provides students with a general level of proficiency for future courses. The Eleventh Edition features two new contributing authors (David Smith — Indiana University of PA; Dennis Brylow — Marquette University), new, modern examples, and updated coverage based on current technology.

The contentious history of the computer programmers who developed the software that made the computer revolution possible. This is a book about the computer revolution of the mid-twentieth century and the people

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who made it possible. Unlike most histories of computing, it is not a book about machines, inventors, or entrepreneurs. Instead, it tells the story of the vast but largely anonymous legions of computer specialists—programmers, systems analysts, and other software developers—who transformed the electronic computer from a scientific curiosity into the defining technology of the modern era. As the systems that they built became increasingly powerful and ubiquitous, these specialists became the focus of a series of critiques of the social and organizational impact of electronic computing. To many of their contemporaries, it seemed the “computer boys” were taking over, not just in the corporate setting, but also in government, politics, and society in general. In *The Computer Boys Take Over*, Nathan Ensmenger traces the rise to power of the computer expert in modern American society. His rich and nuanced portrayal of the men and women (a surprising number of the “computer boys” were, in fact, female) who built their careers around the novel technology of electronic computing explores issues of power, identity, and expertise that have only become more significant in our increasingly computerized society. In his recasting of the

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drama of the computer revolution through the eyes of its principle revolutionaries, Ensmenger reminds us that the computerization of modern society was not an inevitable process driven by impersonal technological or economic imperatives, but was rather a creative, contentious, and above all, fundamentally human development. For the Introduction to Computer Science course. A broad exploration of computer science-with the depth needed to understand concepts Computer Science: An Overview provides a bottom-up, concrete-to-abstract foundation that students can build upon to see the relevance and interrelationships of future computer science courses. Its comprehensive coverage and clear language are accessible to students from all backgrounds, encouraging a practical and realistic understanding. More than 1,000 questions and exercises, Chapter Review Problems, and Social Issues questions reinforce core concepts. The 13th Edition continues its focus on Python to provide programming tools for exploration and experimentation. A new full-color design reflects the use of color in most modern programming interfaces to aid the programmer's understanding of code. Syntax

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coloring is now used more effectively for clarifying code and pseudocode segments in the text, and many figures and diagrams are now rendered more descriptively.

Today's era of economic crisis has sent a powerful message: The age of "mercenary" capitalism is ending. We must finally embark on a new age of sustainable, stakeholder-based capitalism. While enlightened executives and policymakers understand the critical need for change, few have tangible plans for making it happen. In *Capitalism at the Crossroads: Next Generation Business Strategies for a Post-Crisis World*, Third Edition, Stuart L. Hart presents new strategies for identifying sustainable products, technologies, and business models that will drive urgently needed growth and help solve social and environmental problems at the same time. Drawing on his experience consulting with top companies and NGOs worldwide, Hart shows how to craft your optimal sustainability strategy and overcome the limitations of traditional "greening" approaches. In this edition, he presents new and updated case studies from the United States and around the world, demonstrating what's working and what isn't. He also guides business leaders in building an organizational

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"infrastructure for sustainability"--one that can survive budgeting and boardrooms, recharging innovation and growth throughout your enterprise. Discover: · The new business case for pursuing sustainable capitalism · Sustainability strategies that go far beyond environmental sensitivity · How to fully embed your enterprise in the local context--and why you should · Tactics for making long-term sustainability work in a short-term world
Explorations in Language, Logic, and Machines

Ground-Truthing, Programming, Formulating
The Essence of Artificial Intelligence

The Elements of Computing Systems

Quantum Computation and Quantum Information

The Computer Boys Take Over

An authoritative treatment of urban computing, offering an overview of the field, fundamental techniques, advanced models, and novel applications. Urban computing brings powerful computational techniques to bear on such urban challenges as pollution, energy consumption, and traffic congestion. Using today's large-scale computing infrastructure and data gathered from sensing technologies, urban computing combines computer science with urban planning, transportation, environmental science, sociology, and other areas of urban studies, tackling specific problems with concrete methodologies in a data-centric computing framework.

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This authoritative treatment of urban computing offers an overview of the field, fundamental techniques, advanced models, and novel applications. Each chapter acts as a tutorial that introduces readers to an important aspect of urban computing, with references to relevant research. The book outlines key concepts, sources of data, and typical applications; describes four paradigms of urban sensing in sensor-centric and human-centric categories; introduces data management for spatial and spatio-temporal data, from basic indexing and retrieval algorithms to cloud computing platforms; and covers beginning and advanced topics in mining knowledge from urban big data, beginning with fundamental data mining algorithms and progressing to advanced machine learning techniques. Urban Computing provides students, researchers, and application developers with an essential handbook to an evolving interdisciplinary field.

How do we understand and also assess the health care of America? Where is health care provided? What are the characteristics of those institutions which provide it? Over the short term, how are changes in health care provisions affecting the health of the population, the cost of care, and access to care?. Health Care Delivery in the United States, now in a thoroughly updated and revised 9th edition, discusses these and other core issues in the field. Under the editorship of Dr. Kovner and with the addition of Dr. James Knickman, Senior VP of Evaluation, Robert Wood Johnson Foundation, leading thinkers and practitioners in the field examine how medical knowledge creates new healthcare services.

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Emerging and recurrent issues from wide perspectives of health policy and public health are also discussed. With an easy to understand format and a focus on the major core challenges of the delivery of health care, this is the textbook of choice for course work in health care, the reference for administrators and policy makers, and the standard for in-service training programs.;chapter

Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

Be smarter than your computer If you don't understand computers, you can quickly be left behind in today's fast-paced, machine-dependent society. Computer Science Made Simple offers a straightforward resource for technology novices and advanced techies alike. It clarifies all you need to know, from the basic

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components of today's computers to using advanced applications. The perfect primer, it explains how it all comes together to make computers work. Topics covered include: * hardware * software * programming * networks * the internet * computer graphics * advanced computer concepts * computers in society Look for these Made Simple titles: Accounting Made Simple Arithmetic Made Simple Astronomy Made Simple Biology Made Simple Bookkeeping Made Simple Business Letters Made Simple Chemistry Made Simple Earth Science Made Simple English Made Simple French Made Simple German Made Simple Inglés Hecho Fácil Investing Made Simple Italian Made Simple Keyboarding Made Simple Latin Made Simple Learning English Made Simple Mathematics Made Simple The Perfect Business Plan Made Simple Philosophy Made Simple Physics Made Simple Psychology Made Simple Sign Language Made Simple Spanish Made Simple Spelling Made Simple Statistics Made Simple Your Small Business Made Simple www.broadway.com

Parts A, B and C

The Birth of Computer Science

Urban Computing

Architects of the Information Society

With Application to Understanding Data

Turing's Vision

Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop

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in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poisson processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations

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and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics

An introduction to applying predicate logic to testing and verification of software and digital circuits that focuses on applications rather than theory.

Computer scientists use logic for testing and verification of software and digital circuits, but many computer science students study logic only in the context of traditional mathematics, encountering the subject in a few lectures and a handful of problem sets in a discrete math course. This book offers a more substantive and rigorous approach to logic that focuses on applications in computer science. Topics covered include predicate logic, equation-based software, automated testing and theorem proving, and large-scale computation. Formalism is emphasized, and the book employs three formal notations: traditional algebraic formulas of propositional and predicate logic; digital circuit diagrams; and the widely used partially automated theorem prover, ACL2, which provides an accessible introduction to mechanized formalism. For readers who want to see formalization in action, the text

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presents examples using Proof Pad, a lightweight ACL2 environment. Readers will not become ALC2 experts, but will learn how mechanized logic can benefit software and hardware engineers. In addition, 180 exercises, some of them extremely challenging, offer opportunities for problem solving. There are no prerequisites beyond high school algebra. Programming experience is not required to understand the book's equation-based approach. The book can be used in undergraduate courses in logic for computer science and introduction to computer science and in math courses for computer science students.

Classic papers by thinkers ranging from Aristotle and Leibniz to Norbert Wiener and Gordon Moore that chart the evolution of computer science. Ideas That Created the Future collects forty-six classic papers in computer science that map the evolution of the field. It covers all aspects of computer science: theory and practice, architectures and algorithms, and logic and software systems, with an emphasis on the period of 1936-1980 but also including important early work. Offering papers by thinkers ranging from Aristotle and Leibniz to Alan Turing and Nobert Wiener, the book documents the discoveries and inventions that created today's digital world. Each paper is accompanied by a brief essay by Harry Lewis, the volume's editor, offering historical and intellectual context.

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Completely revised and updated, Computer Systems, Fourth Edition offers a clear, detailed, step-by-step introduction to the central concepts in computer organization, assembly language, and computer architecture. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

Capitalism at the Crossroads

Aesthetic Computing

Building Ontologies with Basic Formal Ontology

A Modern Approach

Cambridge IGCSE Computer Science

The Massachusetts Institute of Technology's Laboratory for Computer Science (LCS) has been responsible for some of the most significant technological achievements of the past few decades. Much of the hardware and software driving the information revolution has been, and continues to be, created at LCS. Anyone who sends and receives email, communicates with colleagues through a LAN, surfs the Web, or makes decisions using a spreadsheet is benefiting from the creativity of LCS members. LCS is an interdepartmental laboratory that brings together faculty, researchers, and students in a broad program of study, research, and experimentation. Their principal goal is to pursue innovations in information technology that will improve people's lives. LCS members have been instrumental in the development of ARPAnet, the Internet, the Web, Ethernet, time-shared computers, UNIX, RSA encryption, the X Windows system, NuBus, and

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many other technologies. This book, published in celebration of LCS's thirty-fifth anniversary, chronicles its history, achievements, and continued importance to computer science. The essays are complemented by historical photographs.

Practitioners and scholars explore ethical, social, and conceptual issues arising in relation to such devices as fitness monitors, neural implants, and a toe-controlled computer mouse. Body-centered computing now goes beyond the "wearable" to encompass implants, bionic technology, and ingestible sensors—technologies that point to hybrid bodies and blurred boundaries between human, computer, and artificial intelligence platforms. Such technologies promise to reconfigure the relationship between bodies and their environment, enabling new kinds of physiological interfacing, embodiment, and productivity. Using the term embodied computing to describe these devices, this book offers essays by practitioners and scholars from a variety of disciplines that explore the accompanying ethical, social, and conceptual issues. The contributors examine technologies that range from fitness monitors to neural implants to a toe-controlled mouse. They discuss topics that include the policy implications of ingestibles; the invasive potential of body area networks, which transmit data from bodily devices to the internet; cyborg experiments, linking a human brain directly to a computer; the evolution of the ankle monitor and other intrusive electronic monitoring devices; fashiontech, which offers users an aura of "cool" in exchange for their data; and the "final frontier" of technosupremacism: technologies that seek to read our minds. Taken together, the essays show the importance of considering embodied technologies in their social and political

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contexts rather than in isolated subjectivity or in purely quantitative terms. Contributors Roba Abbas, Andrew Iliadis, Gary Genosko, Suneel Jethani, Deborah Lupton, Katina Michael, M. G. Michael, Marcel O'Gorman, Maggie Orth, Isabel Pedersen, Christine Perakslis, Kevin Warwick, Elizabeth Wissinger

This groundbreaking book charts the origins and spread of the systems movement. After World War II, a systems approach to solving complex problems and managing complex systems came into vogue among engineers, scientists, and managers, fostered in part by the diffusion of digital computing power. Enthusiasm for the approach peaked during the Johnson administration, when it was applied to everything from military command and control systems to poverty in American cities.

Although its failure in the social sphere, coupled with increasing skepticism about the role of technology and "experts" in American society, led to a retrenchment, systems methods are still part of modern managerial practice. This groundbreaking book charts the origins and spread of the systems movement. It describes the major players including RAND, MITRE, Ramo-Wooldrige (later TRW), and the International Institute of Applied Systems Analysis—and examines applications in a wide variety of military, government, civil, and engineering settings. The book is international in scope, describing the spread of systems thinking in France and Sweden. The story it tells helps to explain engineering thought and managerial practice during the last sixty years.

This is a practical, highly-accessible introduction to the state-of-the-art in artificial intelligence. This book demystifies artificial intelligence, making it concrete and transparent. It covers knowledge representation, inference, expert systems, natural language processing,

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machine learning, neural networks, agents, robots, and more. The book includes extensive self-test questions, case studies, figures, worked examples, sample algorithms and a complete glossary. For anyone interested in artificial intelligence; no prior background is required.

Building a Modern Computer from First Principles

Introduction to Probability Models

Readings in Cyberethics

Great Principles of Computing

Algorithms and Complexity

The Science of Biology

Authoritative, thorough, and engaging, *Life: The Science of Biology* achieves an optimal balance of scholarship and teachability, never losing sight of either the science or the student. The first introductory text to present biological concepts through the research that revealed them, *Life* covers the full range of topics with an integrated experimental focus that flows naturally from the narrative. This approach helps to bring the drama of classic and cutting-edge research to the classroom - but always in the context of reinforcing core ideas and the innovative scientific thinking behind them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

The application of the theory and practice

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of art to computer science: how aesthetics and art can play a role in computing disciplines.

In just 21 days, you can acquire the knowledge and skills necessary to develop applications on your computer, web servers, and mobile devices. With this complete tutorial you'll quickly master the basics and then move on to more advanced features and concepts. Completely updated for Java 11 and 12, this book teaches you about the Java language and how to use it to create applications for any computing environment. By the time you have finished the book, you'll have well-rounded knowledge of Java and the Java class libraries. No previous programming experience required. By following the 21 carefully organized lessons in this book, anyone can learn the basics of Java programming. Learn at your own pace. You can work through each chapter sequentially to make sure you thoroughly understand all the concepts and methodologies, or you can focus on specific lessons to learn the techniques that interest you most. Test your knowledge. Each chapter ends with a Workshop section filled with questions, answers, and exercises for further study. There are even certification practice questions. Completely revised, updated,

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and expanded to cover the latest features of Java 11 and 12 Learn to develop Java applications using NetBeans—an excellent programming platform Easy-to-understand, practical examples clearly illustrate the fundamentals of Java programming Discover how to quickly develop programs with a graphical user interface Find out about JDBC programming with the Derby database Learn how to use Inner Classes and Lambda Expressions Learn rapid application development with Apache NetBeans Create a game using Java

A comprehensive update of the leading algorithms text, with new material on matchings in bipartite graphs, online algorithms, machine learning, and other topics. Some books on algorithms are rigorous but incomplete; others cover masses of material but lack rigor. Introduction to Algorithms uniquely combines rigor and comprehensiveness. It covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers, with self-contained chapters and algorithms in pseudocode. Since the publication of the first edition, Introduction to Algorithms has become the leading algorithms text in universities worldwide as well as the standard reference for professionals. This

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fourth edition has been updated throughout. New for the fourth edition • New chapters on matchings in bipartite graphs, online algorithms, and machine learning • New material on topics including solving recurrence equations, hash tables, potential functions, and suffix arrays • 140 new exercises and 22 new problems • Reader feedback-informed improvements to old problems • Clearer, more personal, and gender-neutral writing style • Color added to improve visual presentation • Notes, bibliography, and index updated to reflect developments in the field • Website with new supplementary material

Campbell Biology, Books a la Carte Edition
Introduction to Computation and Programming Using Python, second edition
The Constitution of Algorithms
Invitation To Computer Science 4/e
What Can be Automated?
Computer Science Made Simple

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. The Eleventh Edition of the best-selling text Campbell BIOLOGY sets you on the path to

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success in biology through its clear and engaging narrative, superior skills instruction, and innovative use of art, photos, and fully integrated media resources to enhance teaching and learning. To engage you in developing a deeper understanding of biology, the Eleventh Edition challenges you to apply knowledge and skills to a variety of NEW! hands-on activities and exercises in the text and online. NEW! Problem-Solving Exercises challenge you to apply scientific skills and interpret data in the context of solving a real-world problem. NEW! Visualizing Figures and Visual Skills Questions provide practice interpreting and creating visual representations in biology. NEW! Content updates throughout the text reflect rapidly evolving research in the fields of genomics, gene editing technology (CRISPR), microbiomes, the impacts of climate change across the biological hierarchy, and more. Significant revisions have been made to Unit 8, Ecology, including a deeper integration of evolutionary principles. NEW! A virtual layer to the print text incorporates media references into the printed text to direct you towards content in the Study Area and eText that will help you prepare for class and succeed in exams--Videos, Animations, Get Ready for This Chapter, Figure Walkthroughs, Vocabulary Self-Quizzes, Practice

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Tests, MP3 Tutors, and Interviews. (Coming summer 2017). NEW! QR codes and URLs within the Chapter Review provide easy access to Vocabulary Self-Quizzes and Practice Tests for each chapter that can be used on smartphones, tablets, and computers.

The second part of this Handbook presents a choice of material on the theory of automata and rewriting systems, the foundations of modern programming languages, logics for program specification and verification, and some chapters on the theoretic modelling of advanced information processing.

Computer Science An Overview Pearson

This book provides an overview of current activities in the fascinating area between computer science and sports, presenting the state of the art in utilising the latest developments in computer science to support sports coaches and athletes. It covers a broad range of topics reflecting the diversity of this interdisciplinary field, including concepts in informatics like expert systems, modelling, simulation, machine learning, robotics, and sensor integration. Further, it describes applications of computer science in sports, such as alpine skiing, badminton, football, rowing, and table tennis, as well as interesting applications areas of sport like dementia,

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physiology, training, and space flights. The appeals to informaticians interested in the application field of sports as well as for sports scientists and practitioners looking for advanced methods in their particular sport.

Embodied Computing

Essential Logic for Computer Science

Computer Vision: A Modern Approach

Proceedings of the 12th International

Symposium on Computer Science in Sport (IACSS 2019)

Jonas and Kovner's Health Care Delivery in the United States

12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering

A laboratory study that investigates how algorithms come into existence. Algorithms--often associated with the terms big data, machine learning, or artificial intelligence--underlie the technologies we use every day, and disputes over the consequences, actual or potential, of new algorithms arise regularly. In this book, Florian Jatton offers a new way to study computerized methods, providing an account of where algorithms come from and how they are constituted, investigating the practical activities by which algorithms are progressively assembled rather than what they may suggest or require once are assembled.

Endorsed by Cambridge International Examinations. Develop your students computational thinking and programming skills with complete coverage of the latest syllabus from experienced

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examiners and teachers. - Follows the order of the syllabus exactly, ensuring complete coverage - Introduces students to self-learning exercises, helping them learn how to use their knowledge in new scenarios Accompanying animation files of the key concepts are available to download for free online. See the Quick Links to the left to access. This book covers the IGCSE (0478), Level (2210) and US IGCSE entry (0473) syllabuses, which are for first examination 2015. It may also be a useful reference for students taking the new Computer Science AS level course (9608). This title gives students an integrated and rigorous picture of applied computer science, as it comes to play in the construction of a simple yet powerful computer system.

A guide full of practical hints to help build the confidence of graphics and typography students. Its aim is to bring the reader to the point where they understand the basic principles of typography and to strengthen the designer's 'eye' through informed, direct observation.

Systems, Experts, and Computers

35 Years of the Laboratory for Computer Science at MIT
Life

Next Generation Business Strategies for a Post-Crisis World

Introduction to Algorithms, fourth edition

An Overview

Introduction to abstract interpretation, with examples of applications to the semantics, specification, verification, and static analysis of computer programs. Formal methods are mathematically rigorous techniques for the specification, development, manipulation, and verification of safe, robust, and secure software and hardware systems. Abstract interpretation is a unifying theory of formal methods that proposes a general methodology for proving the correctness of computing systems, based on their semantics. The concepts of abstract interpretation underlie such software tools as

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compilers, type systems, and security protocol analyzers. This book provides an introduction to the theory and practice of abstract interpretation, offering examples of applications to semantics, specification, verification, and static analysis of programming languages with emphasis on calculational design. The book covers all necessary computer science and mathematical concepts--including most of the logic, order, linear, fixpoint, and discrete mathematics frequently used in computer science--in separate chapters before they are used in the text. Each chapter offers exercises and selected solutions. Chapter topics include syntax, parsing, trace semantics, properties and their abstraction, fixpoints and their abstractions, reachability semantics, abstract domain and abstract interpreter, specification and verification, effective fixpoint approximation, relational static analysis, and symbolic static analysis. The main applications covered include program semantics, program specification and verification, program dynamic and static analysis of numerical properties and of such symbolic properties as dataflow analysis, software model checking, pointer analysis, dependency, and typing (both for forward and backward analysis), and their combinations. Principles of Abstract Interpretation is suitable for classroom use at the graduate level and as a reference for researchers and practitioners.

Introduction to Computing is a comprehensive text designed for the CS0 (Intro to CS) course at the college level. It may also be used as a primary text for the Advanced Placement Computer Science course at the high school level.

The new edition of an introductory text that teaches students the art of computational problem solving,

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covering topics ranging from simple algorithms to information visualization. This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries, including PyLab. It provides students with skills that will enable them to make productive use of computational techniques, including some of the tools and techniques of data science for using computation to model and interpret data. The book is based on an MIT course (which became the most popular course offered through MIT's OpenCourseWare) and was developed for use not only in a conventional classroom but in in a massive open online course (MOOC). This new edition has been updated for Python 3, reorganized to make it easier to use for courses that cover only a subset of the material, and offers additional material including five new chapters. Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration, bisection search, and efficient approximation algorithms. Although it covers such traditional topics as computational complexity and simple algorithms, the book focuses on a wide range of topics not found in most introductory texts, including information visualization, simulations to model randomness, computational techniques to understand data, and statistical techniques that inform (and misinform) as well as two related but relatively advanced topics: optimization problems and dynamic programming. This edition offers expanded material on statistics and machine learning and new chapters on Frequentist and Bayesian statistics.

25th European Symposium on Computer-Aided Process Engineering contains the papers presented at the 12th

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Process Systems Engineering (PSE) and 25th European Society of Computer Aided Process Engineering (ESCAPE) Joint Event held in Copenhagen, Denmark, 31 May - 4 June 2015. The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing-based methods in process engineering. This conference highlights the contributions of the PSE/CAPE community towards the sustainability of modern society. Contributors from academia and industry establish the core products of PSE/CAPE, define the new and changing scope of our results, and future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment, and health) and contribute to discussions on the widening scope of PSE/CAPE versus the consolidation of the core topics of PSE/CAPE. Highlights how the Process Systems Engineering/Computer-Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering (PSE) and 25th European Society of Computer-Aided Process Engineering (ESCAPE) Events Establishes the core products of Process Systems Engineering/Computer Aided Process Engineering Defines the future challenges of the Process Systems Engineering/Computer Aided Process Engineering community

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