A Dictionary Of Computer Science 7/e (Oxford Quick Reference)

This book describes the evolution of computer science in the form of seven overlapping, intermingling, parallel histories that unfold concurrently in the course of the two decades. Author Subrata Dasgupta named the two decades from 1970 to 1990 as the second age of computer science to distinguish it from the preceding genesis of the science and the age of the Internet/World Wide Web that followed--

This book is a complete reference on the terms and acronyms relating to computers, hardware, software, programming, data communications, and more. The reader is provided detailed explanations about each acronym rather than short often empty standard dictionary definitions. Because the technology is often somewhat complex, the explanation associated with it must be as detailed and accurate as possible. This encyclopedia gives the reader cross references to additional material in the text which will further explain a term or the technology. Readers are often directed to websites for additional information. This is the one-stop resource for anyone trying be learn what a term/acronym in the computer technology area means.

An A-to-Z reference for programmers provides definitions to both common and uncommon terms, includes accompanying explanations and examples, and covers IBM, clones, and Macintosh languages. Original. (All Users).

This is the first textbook introducing law to computer scientists. The book covers privacy and data protection law, cybercrime, intellectual property, private law liability and legal personhood and legal agency, next to introductions to private law, public law, criminal law and international and supranational law. It provides an overview of the practical implications of law, their theoretical underpinnings and how they affect the study and construction of computational architectures. In a constitutional democracy everyone is under the Rule of Law, including those who develop code and systems, and those who put applications on the market. It is pivotal that computer scientists and developers get to know what law and the Rule of Law require. Before talking about ethics, we need to make sure that the checks and balances of law and the Rule of Law are in place and complied with. Though it is focused on European law, it also refers to US law and aims to provide insights into what makes law, law, rather than brute force or morality, demonstrating the operations of law in a way that has global relevance. This book is geared to those who have no wish to become lawyers but are nevertheless forced to consider the salience of legal rights and obligations with regard to the construction, maintenance and protection of computational artefacts. This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence. It is offered as a free PDF download from OUP and selected open access locations.

The Encyclopedia of Computer Science is the definitive reference in computer science and technology. First published in 1976, it is still the only single volume to cover every major aspect of the field. Now in its Fourth Edition, this influential work provides an historical timeline highlighting the key breakthroughs in computer science and technology, as well as clear and concise explanations of the latest technology and its practical applications. Its unique blend of historical perspective, current knowledge and predicted future trends has earned it its richly deserved reputation as an unrivalled reference classic. What sets the Encyclopedia apart from other reference sources is the comprehensiveness of each of its entries. Encompassing far more than mere definitions, each article elaborates on a topic giving a remarkable breadth and depth of coverage. The visual impact of the volume is enhanced with a 16 page colour insert spotlighting advanced computer applications and computer-generated graphics technology. In addition, the text is enlivened with figures, tables, diagrams, illustrations and photographs. With contributions from over 300 international experts, the 4th Edition contains over 100 completely new articles ranging from artificial life to computer ethics, data mining to Java, mobile computing to quantum computing and software safety to the World Wide Web. In addition, each of the more than 600 articles have been extensively revised, expanded and updated to reflect the latest developments in computer science and technology. Intelligently and thoughtfully organised, all the articles are classified around 9 main themes Hardware Software Computer Systems Information and Data Mathematics of Computing Theory of Computation Methodologies Applications Computing Milieux Within each of these major headings are a wealth of articles that provide the reader with concise yet thorough coverage of the topic. In addition, cross-references are included at the beginning of each article, directing the reader immediately to related material. In addition the Encyclopedia contains useful appendices including: An expanded glossary of major terms in English, German, Spanish and Russian A revised list of abbreviations and acronyms An updated list of computer science and engineering research journals A list of articles from previous editions not included in the 4th edition A Name Index listing almost 3500 individuals cited in the text A comprehensive General Index with 7000 entries A chronology of significant milestones Computer Society & Academic Computer Science Department Listings Numerical Tables, Mathematical Notation and Units of Measure Highly-regarded as an essential resource for computer professionals, engineers, mathematicians, students and scientists, the Encyclopedia of Computer Science is a must-have reference for every college, university, business and high-school library.

In clear and technically precise definitions, this newly compiled dictionary covers all aspects of information technology and computer science for the newcomer and the computer specialist, underpinned by a set of key terms applied consistently throughout. The dictionary covers: personal computing and office automation -- key programming terms, concepts and methods -- common abbreviations and acronyms -- underlying technologies from silicon chips to networks -- how the computer industry operates -- many aspects of data processing.

Nowadays, embedded systems - computer systems that are embedded in various kinds of devices and play an important role of specific control functions, have permeated various scenes of industry. Therefore, we can hardly discuss our life or society from now onwards without referring to embedded systems. For wide-ranging embedded systems to continue their growth, a number of high-quality fundamental and applied researches are indispensable. This book contains 13 excellent chapters and addresses a wide spectrum of research topics of embedded systems, including parallel computing, communication architecture, application-specific systems, and embedded systems projects. Embedded systems can be made only after fusing miscellaneous technologies together. Various technologies condensed in this book as well as in the complementary book "Embedded Systems - Theory and Design Methodology", will be helpful to researchers and engineers around the world.

This book comes out of need and urgency (expressed especially in areas of Information Retrieval with respect to Image, Audio, Internet and Biology) to have a working tool to compare data. The book will provide powerful resource for all researchers using Mathematics as well as for mathematicians themselves. In the time when over-specialization and terminology fences isolate researchers, this Dictionary try to be "centripedal" and "oikoumeni", providing some access and altitude of vision but without taking the route of scientific vulgarisation. This attempted balance is the main philosophy of this Dictionary which defined its structure and style. Key features: - Unicity: it is the first book treating the basic notion of Distance in whole generality. - Interdisciplinarity: this Dictionary is larger in scope than majority of thematic dictionaries. - Encyclopedicity: while an Encyclopedia of Distances seems now too difficult to produce, this book (by its scope, short introductions and organization) provides the main material for it and for future tutorials on some parts of this material. - Applicability: the distances, as well as distance-related notions and paradigms, are provided in ready-to-use fashion. - Worthiness: the need and urgency for such dictionary was great in several huge areas, esp. Information Retrieval, Image Analysis, Speech Recognition and Biology. - Accessibility: the definitions are easy to locate by subject or, in Index, by alphabetic order; the introductions and definitions are reader-friendly and maximally independent one from another; still the text is structured, in the 3D HTML style, by hyperlink-like boldfaced references to similar definitions. * Covers a large range of subjects in pure and applied mathematics * Designed to be easily applied--the distances and distance-related notions and paradigms are ready to use * Helps users quickly locate definitions by subject or in alphabetical order; stand-alone entries include references to other entries and sources for further investigation

Dictionary of Computer Science, Engineering and Technology
Jargon
Microsoft Computer Dictionary
Blackie's Dictionary of Computer Science
Technology Basics Dictionary
High Performance Systems, Applications and Projects
Encyclopedia of Computer Science
Dictionary of Distances
Think Julia

Defines more than 2,400 terms and phrases related to computers, programming, data processing, and the Internet.

Defines terms dealing with programming, multimedia, peripheral equipment, databases, local area networks, fiber optics, automation, and artificial intelligence

The Technology Basics Dictionary: Tech and Computers Simplified is a dictionary for anyone. Whether you're completely inexperienced with tech or you're an experienced technology expert, this dictionary defines complex terms in an easy-to-understand fashion. It was created by Jack Stanley and Erik Gross, the Co-Founders of The Tech Academy. If you want to easily define words you hear everyday, this is the dictionary for you! Purchase your copy today! Learn more about The Tech Academy here: www.learncodinganywhere.com

Written for the professional and the layman, the book provides the meanings of important and interesting acronyms in the broad area of computing and information science and technology. The acronyms and abbreviations contained in this book were created by the men and women of the computer and information age to save time and space and eliminate unnecessary repetition and wordage. The book is of value to engineers, scientists, technologists, executives and managers in technical fields, programmers, systems analysts, writers, and computer owners or potential buyers.

The BCS Glossary is the most authoritative and comprehensive work of its kind. This unrivalled study aid and reference tool has newly updated entries and is divided into themed sections making it more than just a list of definitions. Written in an easily accessible style, it is specifically designed to support those taking computer courses or courses where computers are used, including GCSE, A-Level, ECDL and 14-19 Diplomas in Functional Skills in schools and further education colleges.

Help students to develop and apply problem solving and computational thinking skills in context with the practical, step-by-step approach of Complete Computer Science. This comprehensive text supports the latest Cambridge IGCSE (0478) & O Level (2210) syllabuses. Build strong achievement with extensive programming support and plenty of practice exercises that ensure through understanding of trickier topics like number representation, flowcharts, pseudocode and databases. Challenge students who have the potential to excel with plenty of stretching extension material. Written by highly experienced authors and examiners, Complete Computer Science is also supported by an extensive Teacher Guide, to help you deliver the course effectively.

The book provides a wide coverage of entries across software. Hardware, firmware, operating systems, protocols, networking, data bases, graphics, security, artificial intelligence, programming logic, mathematics, game theory, software engineering and related areas of IT industry. The key features of the book are:

Written by leading researchers, the 2nd Edition of the Dictionary of Computer Vision & Image Processing is a comprehensive and reliable resource which now provides explanations of over 3500 of the most commonly used terms across image processing, computer vision and related fields including machine vision. It offers clear and concise definitions with short examples or mathematical precision where necessary for clarity that ultimately makes it a very usable reference for new entrants to these fields at senior undergraduate and graduate level, through to early career researchers to help build up knowledge of key concepts. As the book is a useful source for recent terminology and concepts, experienced professionals will also find it a valuable resource for keeping up to date with the latest advances. New features of the 2nd Edition: Contains more than 1000 new terms, notably an increased focus on image processing and machine vision terms; Includes the addition of reference links across the majority of terms pointing readers to further information about the concept under discussion so that they can continue to expand their understanding; Now available as an eBook with enhanced content: approximately 50 videos to further illustrate specific terms; active cross-linking between terms so that readers can easily navigate from one related term to another and build up a full picture of the topic in question; and hyperlinked references to fully embed the text in the current literature.

Computer Science and Communications Dictionary
Complete Computer Science for Cambridge IGCSE® & O Level
Interdisciplinary Problems, Principles, and Python Programming
Academic Press Dictionary of Science and Technology
An Informal Dictionary of Computer Terms
BCS Glossary of Computing and ICT
Embedded Systems
From Algol Genes to Neural Nets
IBM Dictionary of Computing

This book offers a professional, traditional-dictionary format and layout formaximum utility. The dictionary is fully searchable on CD-ROM.

"Havill's problem-driven approach introduces algorithmic concepts in context and motivates students with a wide range of interests and backgrounds." -- Janet Davis, Associate Professor and Microsoft Chair of Computer Science, Whitman College "This book looks really great and takes exactly the approach I think should be used for a CS 1 course. I think it really fills a need in the textbook landscape." -- Marie desJardins, Dean of the College of Organizational, Computational, and Information Sciences, Simmons University "Discovering Computer Science is a refreshing departure from introductory programming texts, offering students a much more sincere introduction to the breadth and complexity of this ever-growing field." -- James Deverick, Senior Lecturer, The College of William and Mary "This unique introduction to the science of computing guides students through broad and universal approaches to problem solving in a variety of contexts and their ultimate implementation as computer programs." -- Daniel Kaplan, DeWitt Wallace Professor, Macalester College Discovering Computer Science: Interdisciplinary Problems, Principles, and Python Programming is a problem-oriented introduction to computational problem solving and programming in Python, appropriate for a first course for computer science majors, a more targeted disciplinary computing course or, at a slower pace, any introductory computer science course for a general audience. Realizing that an organization around language features only resonates with a narrow audience, this textbook instead connects programming to students' prior interests using a range of authentic problems from the natural and social sciences and the digital humanities. The presentation begins with an introduction to the problem-solving process, contextualizing programming as an essential component. Then, as the book progresses, each chapter guides students through solutions to increasingly complex problems, using a spiral approach to introduce Python language features. The text also places programming in the context of fundamental computer science principles, such as abstraction, efficiency, testing, and algorithmic techniques, offering glimpses of topics that are traditionally put off until later courses. This book contains 30 well-developed independent projects that encourage students to explore questions across disciplinary boundaries, over 750 homework exercises, and 300 integrated reflection questions engage students in problem solving and active reading. The accompanying website — https://www.discoveringcs.net — includes more advanced content, solutions to selected exercises, sample code and data files, and pointers for further exploration.

Defines terms and concepts related to computers, programming, artificial intelligence, operating systems, software, and the Internet

Defines more than 1500 terms and phrases related to computers, programming, data processing, and the Internet.

Computer terminology is constantly expanding, and the brand-new edition of this dictionary has been updated to keep pace with the latest important innovations in computer science and technology. Emphasis is on helpful information for non-technical home computer users. The book presents more than 3,200 computer-related terms with clear and succinct definitions. Revised features include up-to-date information on Windows Vista, networking, data storage, video, computer security and ethics, and personal computer hardware. Tables, charts, graphs, photos, and line illustrations.

A complete lexicon of technical information, the Dictionary of Computer Science, Engineering, and Technology provides workable definitions, practical information, and enhances general computer science and engineering literacy. It spans various disciplines and industry sectors such as: telecommunications, information theory, and software and hardware systems. If you work with, or write about computers, this dictionary is the single most important resource you can put on your shelf. The dictionary addresses all aspects of computing and computer technology from multiple perspectives, including the academic, applied, and professional vantage points. Including more than 8,000 terms, it covers all major topics from artificial intelligence to programming languages, from software engineering to operating systems, and from database management to privacy issues. The definitions provided are detailed rather than concise. Written by an international team of over 80 contributors, this is the most comprehensive and easy-to-read reference of its kind. If you need to know the definition of anything related to computers you will find it in the Dictionary of Computer Science, Engineering, and Technology.

Providing comprehensive coverage of computer applications in industry, school, work, education, and the home, this fully revised dictionary is the ideal reference for students, professionals, and anyone who uses computers.

With 10,000 entries, this dictionary is the most complete of its kind. It is a major contribution to more accurate sharing of scientific and technological information.

Discovering Computer Science
Law for Computer Scientists and Other Folk

Tech and Computers Simplified
A Dictionary of Electronics and Electrical Engineering
Computer Dictionary
Que's Computer Programmer's Dictionary
Concise Encyclopedia of Computer Science
A Dictionary of Computer Science

This bestselling dictionary contains more than 9,500 entries on all aspects of chemistry, physics, biology (including human biology), earth sciences, computer science, and astronomy. This fully revised edition includes hundreds of new entries, such as bone morphogenetic protein, Conv Biological Diversity, genome editing, Ice Cube experiment, multi-core processor, PhyloCode, quarkonium, and World Wide Telescope, bringing it fully up to date in areas such as nanotechnology, quantum physics, molecular biology, genomics, and the science of climate change. Suppor more than 200 diagrams and illustrations the dictionary features recommended web links for many entries, accessed and kept up-to-date via the Dictionary of Science companion website. Other features include short biographies of leading scientists, full page illustrated features on subje the Solar System and Genetically Modified Organisms, and chronologies of specific scientific subjects including plastics, electronics, and cell biology. With concise entries on an extensive list of topics, this dictionary is both an ideal reference work for students and a great introduction for scientists.

Covering both computer science and communications technology, this dictionary features over 20,000 entries. It covers the technology trends in computer science, communications, networking, supporting protocols, and the internet. It is suitable for students and professionals in compute and communications.

Dictionary of Computer & Information Technology covers nearly every aspect of computers. The aim of this book is to present various terms and definitions of the subject in a simple and easily understandable language. The book is designed to be a comprehensive and authoritative sou definitions for computer-related terms and abbreviations. This dictionary of computer terminologies includes terms drawn from a wide variety of topics relevant to computer users, including software, hardware, networking, data storage, graphics, games, information processing, organizat programming and standards, the Internet and the World Wide Web. This dictionary emphasizes terminology that the average computer user will encounter in documentation, online help, computer manuals, marketing and sales materials, etc. Because most computer users operate perso computers and desktop systems at home, work, or both, the majority of the entries in this dictionary cover the terminology used in describing and working with these systems.

Over 125,000 entries cover 124 scientific and technological fields, including acoustical engineering, cartography graphic arts, microbiology, organic chemistry, radiology, and zoology

The Concise Encyclopedia of Computer Science has been adapted from the full Fourth Edition to meet the needs of students, teachers and professional computer users in science and industry. As an ideal desktop reference, it contains shorter versions of 60% of the articles found in the Edition, putting computer knowledge at your fingertips. Organised to work for you, it has several features that make it an invaluable and accessible reference. These include: Cross references to closely related articles to ensure that you don't miss relevant information Appendices coverin abbreviations and acronyms, notation and units, and a timeline of significant milestones in computing have been included to ensure that you get the most from the book. A comprehensive index containing article titles, names of persons cited, references to sub-categories and important v general usage, guarantees that you can easily find the information you need. Classification of articles around the following nine main themes allows you to follow a self study regime in a particular area: Hardware Computer Systems Information and Data Software Mathematics of Compu Theory of Computation Methodologies Applications Computing Milieux. Presenting a wide ranging perspective on the key concepts and developments that define the discipline, the Concise Encyclopedia of Computer Science is a valuable reference for all computer users.

This dictionary provides thousands of terms related to the Web, software technology, jargon, e-commerce, security, and the technical and organizational infrastructure of the Internet. There are also useful links to relevant websites.

Previously named A Dictionary of Computing, this bestselling dictionary has been renamed A Dictionary of Computer Science, and fully revised by a team of computer specialists, making it the most up-to-date and authoritative guide to computing available. Containing over 6,500 entries expanded coverage of multimedia, computer applications, networking, and personal computer science, it is a comprehensive reference work encompassing all aspects of the subject and is as valuable for home and office users as it is indispensable for students of computer science. Ter defined in a jargon-free and concise manner with helpful examples where relevant. The dictionary contains approximately 150 new entries including cloud computing, cross-site scripting, iPad, semantic attack, smartphone, and virtual learning environment. Recommended web links for m entries, accessible via the Dictionary of Computer Science companion website, provide valuable further information and the appendices include useful resources such as generic domain names, file extensions, and the Greek alphabet. This dictionary is suitable for anyone who uses com is ideal for students of computer science and the related fields of IT, maths, physics, media communications, electronic engineering, and natural sciences.

"The 2nd edition of the Dictionary of Information Science and Technology is an updated compilation of the latest terms and definitions, along with reference citations, as they pertain to all aspects of the information and technology field"--Provided by publisher.

The Second Age of Computer Science
?????????-???-??????
A Dictionary of Computing
A Dictionary of Information Technology and Computer Science
Dictionary of Computer Vision and Image Processing
Dictionary of Computer and Internet Terms
The Computer and Information Science and Technology Abbreviations and Acronyms Dictionary
Prentice Hall's Illustrated Dictionary of Computing
A Dictionary of Science

If you're just learning how to program, Julia is an excellent JIT-compiled, dynamically-typed language with a clean syntax. This hands-on guide uses Julia (version 1.0) to walk you through programming one step at a time, beginning with basic programming concepts before moving on to more advanced capabilities, such as creating new types and multiple dispatch. Designed from the beginning for high performance, Julia is a general-purpose language not only ideal for numerical analysis and computational science, but also for

web programming or scripting. Through exercises in each chapter, you'll try out programming concepts as you learn them. Think Julia is ideal for students at the high school or college level, as well as self-learners, home-schooled students, and professionals who need to learn programming basics. Start with the basics, including language syntax and semantics Get a clear definition of each programming concept Learn about values, variables, statements, functions, and data structures in a logical progression Discover how to work with files and databases Understand types, methods, and multiple dispatch Use debugging techniques to fix syntax, runtime, and semantic errors Explore interface design and data structures through case studies

This work facilitates the cross-use terms from the various contributing sub-areas of information science. With definitions of 1,000 terms, in alphabetical order, the volume provides a unified, integrated and concise guide to the field. Each term is annotated by one or more references to the literature. Where possible, the first reference directs the user to a basic or seminal discussion of the term and subsequent references show its usage in an information science-related application. This work will be an indispensable reference for students, researchers, and professionals.

This updated edition includes the most recent terms relating to constantly expanding computer and internet technology. More than 3,200 terms and definitions deal with: Practical guidance for business software users Computer security, law, and ethics Computer programming, with examples in several computer languages Internet culture and latest developments Previous editions of this user-friendly book have proved especially helpful to readers who feel intimidated by computer technicians' jargon. The authors clarify technical terminology while keeping to the highest standards of accuracy. One grateful reader called this book the "Rosetta Stone" for deciphering computer terms. Features many line illustrations and tables.

Defines both technical and informal computer terms and explains the concept behind each term

This popular dictionary, formerly published as the Penguin Dictionary of Electronics, has been extensively revised and updated, providing more than 5,000 clear, concise, and jargon-free A-Z entries on key terms, theories, and practices in the areas of electronics and electrical science. Topics covered include circuits, power, systems, magnetic devices, control theory, communications, signal processing, and telecommunications, together with coverage of applications areas such as image processing, storage, and electronic materials. The dictionary is enhanced by dozens of equations and nearly 400 diagrams. It also includes 16 appendices listing mathematical tables and other useful data, including essential graphical and mathematical symbols, fundamental constants, technical reference tables, mathematical support tools, and major innovations in electricity and electronics. More than 50 useful web links are also included with appropriate entries, accessible via a dedicated companion website. A Dictionary of Electronics and Electrical Engineering is the most up-to-date quick reference dictionary available in its field, and is a practical and wide-ranging resource for all students of electronics and of electrical engineering.

A Dictionary of Computer ScienceOxford University Press

This dictionary contains over 32,000 terms that are specific to Computers and the Internet. Each term includes a definition / description. With more than 750 pages, this dictionary is one of the most comprehensive resources available.Terms relate to applications, commands, functions, operating systems, image processing and networking.No other dictionary of computing terms even comes close to the breadth of this one. It is designed to be used by everyone from the novice seeking the most basic information ... to the mainframe systems programmer and MIS professional looking for sophisticated and hard-to-find information that's not available in most reference books. It's all here in one indispensable reference source. * artificial intelligence. * computer-integrated manufacturing* data communication* databases* distributed data processing* fiber optics* fundamental terms* local area networks* multimedia* office automation* open systems interconnection* peripheral equipment* personal computing* processing units* programming* system development* text processing This dictionary is ideal not only for students of computing but for those studying the related fields of Information Technology, mathematics, physics, media communications, electronic engineering, and natural sciences.We also publish a companion volume (Vol.2) of Computer Acronyms and Abbreviations with an additional 4,500 terms. Volume 2 also includes a section on file name extensions showing the most commonly used extensions and their association with various software systems.This dictionary is available in more than 100 languages. See our website for pricing and availability.http://www.wordsrus.info/catalog/computer_dictionary.html

An easy-to-use illustrated dictionary that includes over 1000 words and meanings to help young learners understand key computing terms and concepts, essential for working with text and data, image editing, logic, programming, and communication technology. It includes words from the NationalCurriculum topics of algorithms, logical reasoning, computational thinking, data representation, computer networks, and digital devices.From the basic program, file, online, browser, URL to the more technical toolbar, sprite, variable, Boolean, JavaScript, CMYK, sequence and simulation, this book supports parents and teachers as well as children with the key vocabulary needed to learn about computing and work with computers in theclassroom and in their everyday lives. A fully illustrated supplement provides extended information and builds vocabulary on topics ranging from computer components, hardware and software to computer games, how the Internet works, and coding terminology in block coding and Scratch going on toPython.This dictionary sits alongside the Oxford Primary Illustrated reference titles (the Primary Illustrated Dictionary, Thesaurus, Maths and Science titles), as well as supporting transition and lower secondary. It is also ideal for use with the International Primary Computing series for age 8+ and theMatrix Computing series for age 11+, and can be a key reference tool at school and at home.For free downloadable activity worksheets, go to a href="http://www.oxfordschooldictionaries.com"www.oxfordschooldictionaries.com/a

Dictionary of Computer & Information Technology
How to Think Like a Computer Scientist
The Facts on File Dictionary of Computer Science
A Dictionary of the Internet
The Facts On File Dictionary of Computer Science
Dictionary of Information Science and Technology
Oxford Illustrated Computing Dictionary