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Encyclopedia of Computer Science Computer Science Dictionary of Computer Science, Engineering and Technology History of Computer Science Fundamental Concepts in Computer Science Encyclopedia of Computer Science and Technology Computer Science A Dictionary of Computer Science Encyclopedia of Computer Science and Technology Computing Handbook, Third Edition The Second Age of Computer Science Computer Science Illuminated Computer Science Introduction to Computer Science Mathematical Aspects of Computer Science Encyclopedia of Computer Science Computer Science It Began with Babbage Computer Science Computer Science A Basis for Theoretical Computer Science Insight into Theoretical and Applied Informatics Computer Science The Theory of Computer Science An Introduction to Computer Science Mathematics of Discrete Structures for Computer Science Foundations of Computer Science Foundations of Computer Science Selected Papers on Computer Science Handbook on Computer Science Advances in Core Computer Science-Based Technologies Foundations of Computer Science Elements of Computer Science Computing Tomorrow MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE Computer Science and Applications A Tour of Computer Science Concepts An Invitation to Computer Science Invitation to Computer Science Theoretical Foundations of Computer Science

Encyclopedia of Computer Science

2000

an alphabetically arranged reference containing more than six hundred entries on computer science covering areas such as ethics quantum computing software safety the world wide and numerous others

Computer Science

2016

while the development of information technology has been obvious to all the underpinning computer science has been less apparent subrata dasgupta provides a thought provoking introduction to the field and its core principles considering computer science as a science of symbol processing

Dictionary of Computer Science, Engineering and Technology

2017-12-19

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

History of Computer Science

2020-09-15

the history of computer science is a picture of dramatic changes european scientists discovered many basic methods needed for computing american companies saw the commercial potential asian factories produce first class products like mobile devices chinese supercomputing is one of the leaders in the race to exascale computing power freedom of information open data and open government are impossible without open internet and net neutrality privacy and security issues become important human rights while all of our avatars collect myriads of data and know more about us than we know ourselves cloud computing is the key for commercial organization of computing in the future everyone needs orientation in this fast changing world a look into the history of computer science provides help to understand ict technology of today

Fundamental Concepts in Computer Science

2009

this book presents fundamental contributions to computer science as written and recounted by those who made the contributions themselves as such it is a highly original approach to a oc living historyoco of the field of computer science the scope of the book is broad in that it covers all aspects of computer science going from the theory of computation the theory of programming and the theory of computer system performance all the way to computer hardware and to major numerical applications of computers

Encyclopedia of Computer Science and Technology

2017-10-02

with breadth and depth of coverage the encyclopedia of computer science and technology second edition has a multi disciplinary scope drawing together comprehensive coverage of the inter related aspects of computer science and technology the topics covered in this encyclopedia include general and reference hardware computer systems organization networks software and its engineering theory of computation mathematics of computing information systems security and privacy human centered computing computing methodologies applied computing professional issues leading figures in the history of computer science the encyclopedia is structured according to the acm computing classification system ccs first published in 1988 but subsequently revised in 2012 this classification system is the most comprehensive and is considered the de facto ontological framework for the computing field the encyclopedia brings together the information and historical context that students practicing professionals researchers and academicians need to have a strong and solid foundation in all aspects of computer science and technology

Computer Science

2004-10-06

computer science reflections on the field reflections from the field provides a concise characterization of key ideas that lie at the core of computer science cs research the book offers a description of cs research recognizing the richness and diversity of the field it brings together two dozen essays on diverse aspects of cs research their motivation and results by describing in accessible form computer science s intellectual character and by conveying a sense of its vibrancy through a set of examples the book aims to prepare readers for what the future might hold and help to inspire cs researchers in its creation

A Dictionary of Computer Science

2016

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

Encyclopedia of Computer Science and Technology

1977-05-01

this comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities each article in the encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as samuel alexander john von neumann and norbert wiener and in depth analysis of future directions

Computing Handbook, Third Edition

2014-05-07

computing handbook third edition computer science and software engineering mirrors the modern taxonomy of computer science and software engineering as described by the association for computing machinery acm and the ieee computer society ieee cs written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems the book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century

The Second Age of Computer Science

2018-05-01

by the end of the 1960s a new discipline named computer science had come into being a new scientific paradigm the computational paradigm was in place suggesting that computer science had reached a certain level of maturity yet as a science it was still precociously young new forces some technological some socio economic some cognitive impinged upon it the outcome of which was that new kinds of computational problems arose over the next two decades indeed by the beginning of the 1990 s the structure of the computational paradigm looked markedly different in many important respects from how it was at the end of the 1960s 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 that followed this book describes the evolution of computer science in this second age in the form of seven overlapping intermingling parallel histories that unfold concurrently in the course of the two decades certain themes characteristic of this second age thread through this narrative the desire for a genuine science of computing the realization that computing is as much a human experience as it is a technological one the search for a unified theory of intelligence spanning machines and mind the desire to liberate the computational mind from the shackles of sequentiality and most ambitiously a quest to subvert the very core of the computational paradigm itself we see how the computer scientists of the second age address these desires and challenges in what manner they succeed or fail and how along the way the shape of computational paradigm was altered and to complete this history the author asks and seeks to answer the question of how computer science shows evidence of progress over the course of its second age

Computer Science Illuminated

2007

this text offers students on the dynamic and diverse field of computer science in the text the authors provide an overview of the many aspects of the discipline from a generic view point separate program language chapters are available as bundle items for those instructors who would like to explore a particular programming language with their students the many layers of computing are thoroughly explained beginning with the information layer working through the hardware programming operating systems application and communication layers and ending with a discussion on the limitations of computing it is for introductory computing and computer science courses it is also for computer science majors with a solid foundation for further study and offers non majors a comprehensive and complete introduction to computing

Computer Science

2011-12-02

computer science the hardware software and heart of it focuses on the deeper aspects of the two recognized subdivisions of computer science software and hardware these subdivisions are shown to be closely interrelated as a result of the stored program concept computer science the hardware software and heart of it includes certain classical theoretical computer science topics such as unsolvability e g the halting problem and undecidability e g godel s incompleteness theorem that treat problems that exist under the church turing thesis of computation these problem topics explain inherent limits lying at the heart of software and in effect define boundaries beyond which computer science professionals cannot go beyond newer topics such as cloud computing are also covered in this book after a survey of traditional programming languages e g fortran and c a new kind of computer programming for parallel distributed computing is presented using the message passing paradigm which is at the heart of large clusters of computers this leads to descriptions of current hardware platforms for large scale computing such as clusters of as many as one thousand which are the new generation of supercomputers this also leads to a consideration of future quantum computers and a possible escape from the church turing thesis to a new computation paradigm the book s historical context is especially helpful during this the centenary of turing s birth alan turing is widely regarded as the father of computer science since many concepts in both the hardware and software of computer science can be traced to his pioneering research turing was a multi faceted mathematician engineer and was able to work on both concrete and abstract levels this book shows how these two seemingly disparate aspects of computer science are intimately related further the book

treats the theoretical side of computer science as well which also derives from turing s research computer science the hardware software and heart of it is designed as a professional book for practitioners and researchers working in the related fields of quantum computing cloud computing computer networking as well as non scientist readers advanced level and undergraduate students concentrating on computer science engineering and mathematics will also find this book useful

Introduction to Computer Science

1981

introduces explains the fundamental concepts of computer science designed to be used as a textbook a supplement a review or a reference manual

Mathematical Aspects of Computer Science

1967-12-31

the reference of choice for everyone who works with computers this manual has long been the only single source volume reference to cover the entire field of computer science the new edition will maintain this source as the 1 authority in the field by providing valuable data on the most current computing systems operating systems and distributed computing environments about 70 percent of the information has been revised with nearly 175 completely new entries the encyclopedia s renowned editorial board has made sure this databank encompasses everything from the history of electronic computing to the most current research in computer technology 12 page color insert

Encyclopedia of Computer Science

1993

provides an introductory overview of the discipline of computer science using the notion of algorithms as the unifying concept

Computer Science

1988

as a field computer science occupies a unique scientific space in that its subject matter can exist in both physical and abstract realms an artifact such as software is both tangible and not and must be classified as something in between or liminal the study and production of liminal artifacts allows for creative possibilities that are and have been possible only in computer science in it began with babbage computer scientist and writer subrata dasgupta examines the distinct history of computer science in terms of its creative innovations reaching back to charles babbage in 1819 since all artifacts of computer science are conceived with a use in mind the computer scientist is not concerned with the natural laws that govern disciplines like physics or chemistry instead the field is more concerned with the concept of purpose this requirement lends itself to a type of creative thinking that as dasgupta shows us has exhibited itself throughout the history of computer science more than any other computer science is the science of the artificial and has a unique history to accompany its unique focus the book traces a path from babbage s difference engine in the early 19th century to the end of the 1960s by when a new academic discipline named computer science had come into being along the way we meet characters like babbage and ada lovelace turing and von neumann shannon and chomsky and a host of other people from a variety of backgrounds who collectively created this new science of the artificial and in the end we see how and why computer science acquired a nature and history all of its own

It Began with Babbage

2014-01-07

computer science an overview truly lives up to its title providing an introduction to the entire computer science discipline this broad coverage combined with clear explanations has made it the leading textbook for the beadth first cs0 course the text is unique in that it avoids presenting topics from the perspective of any particular programming language moreover the text communicates the dynamics of computer science by presenting topics in a historical perspective in which past developments the current state of the art and directions of research are discussed the result is a balanced realistic picture of computer science including such topics as programming languages operating systems algorithms software engineering networking database design artificial intelligence and machine architecture this seventh edition has been thoroughly updated to discuss important trends in such areas as networking and the internet software engineering and artificial intelligence topics added include open source development associative memory xml and c thought provoking discussions of ethical and legal issues revolving around computing are integrated into each chapter rather than being presented as separate isolated topics

Computer Science

2003

introduction to computer science computer science an overview ninth edition j glenn brookshear marquette university do you want your students to gain a fundamental understanding of the field of computer science would you like them to be excited by the opportunities computing presents for further studies and future careers computer science an overview delivers a foundational framework of what computer science is all about each topic is presented with a historical perspective its current state and its future potential as well as ethical issues for students to consider this balanced realistic picture helps students see that their future success depends on a solid overview in the rapidly changing field of computer science features a language independent introduction to computer science that uses c c and javatm as example languages more than 1 000 questions exercises chapter review problems and social issues questions that give students the opportunity to apply the concepts as they learn them discussion of ethical and legal aspects of areas such as internet security software engineering and database technology that brings to light the things students should know to be safe and responsible users of technology a companion website that includes practical exploration of topics from the text software simulators and more available at aw com brookshear check the front of the book for the access code that opens up the companion website and the valuable student resources for this book six month access is included with all new books

Computer Science

2007

computer science seeks to provide a scientific basis for the study of inform a tion processing the solution of problems by algorithms and the design and programming of computers the last forty years have seen increasing sophistication in the science in the microelectronics which has made machines of staggering complexity economically feasible in the advances in programming methodology which allow immense programs to be designed with increasing speed and reduced error and in the development of mathematical techniques to allow the rigorous specification of program process and machine the present volume is one of a series the akm series in theoretical computer science designed to make key mathe matical developments in computer science readily accessible to under graduate and beginning graduate students specifically this volume takes readers with little or no mathematical background beyond high school algebra and gives them a taste of a number of topics in theoretical computer science while laying the mathematical foundation for the later more detailed study of such topics as formal language theory computability theory programming language semantics and the study of program verification and correctness chapter 1 introduces the basic concepts of set theory with special emphasis on functions and relations using a simple algorithm to provide motivation chapter 2 presents the notion of inductive proof and gives the reader a good grasp on one of the most important notions of computer science the recursive definition of functions and data structures

<u>A Basis for Theoretical Computer Science</u>

2012-12-06

the book is addressed to young people interested in computer technologies and computer science the objective of this book is to provide the reader with all the necessary elements to get him or her started in the modern field of informatics and to allow him or her to become aware of the relationship between key areas of computer science the book is addressed not only to future software developers but also to all who are interested in computing in a widely understood sense the authors also expect that some computer professionals will want to review this book to lift themselves above the daily grind and to embrace the excellence of the whole field of computer science unlike existing books this one bypasses issues concerning the construction of computers and focuses only on information processing recognizing the importance of the human factor in information processing the authors intend to present the theoretical foundations of computer science software development rules and some business aspects of informatics in non technocratic humanistic terms

Insight into Theoretical and Applied Informatics

2015-01-01

named a notable book in the 21st annual best of computing list by the acm robert sedgewick and kevin wayne s computer science an interdisciplinary approach is the ideal modern introduction to computer science with java programming for both students and professionals taking a broad applications based approach sedgewick and wayne teach through important examples from science mathematics engineering finance and commercial computing the book demystifies computation explains its intellectual underpinnings and covers the essential elements of programming and computational problem solving in today s environments the authors begin by introducing basic programming elements such as variables conditionals loops arrays and i o next they turn to functions introducing key modular programming concepts including components and reuse they present a modern introduction to object oriented programming covering current programming paradigms and approaches to data abstraction building on this foundation sedgewick and wayne widen their focus to the broader discipline of computer science they introduce classical sorting and searching algorithms fundamental data structures and their application and scientific techniques for assessing an implementation s performance using abstract models readers learn to answer basic questions about computation gaining insight for practical application finally the authors show how machine architecture links the theory of computing to real computers and to the field s history and evolution for each concept the authors present all the information readers need to build confidence together with examples that solve intriguing problems each chapter contains question and answer sections self study drills and challenging problems that demand creative solutions companion web site introcs cs princeton edu java contains extensive supplementary information including suggested approaches to programming assignments checklists and faqs graphics and sound libraries links to program code and test data solutions to selected exercises chapter summaries detailed instructions for installing a java programming environment detailed problem sets and projects companion 20 part series of video lectures is available at informit com title 9780134493831

Computer Science

2016-06-17

instructor s manual jean paul tremblay and brad redekopp

The Theory of Computer Science

1977-01-01

mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems and whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability this book covers the foundational mathematics necessary for courses in computer science the common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct this book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties after justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs the book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process the book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering

An Introduction to Computer Science

1989

this book contains proceedings of the 2018 international conference on foundations of computer science fcs 18 fcs is an international conference that serves researchers scholars professionals students and academicians who are looking to both foster working relationships and gain access to the latest research results

Mathematics of Discrete Structures for Computer Science

2012-09-13

this anthology of essays from the inventor of literate programming is a survey of donald knuth s papers on computer science donald knuth s influence in computer science ranges from the invention of literate programming to the development of the tex programming language one of the foremost figures in the field of mathematical sciences his papers are widely referenced and stand as milestones of development over a wide range of topics this collection focuses on professor knuth s published science papers that serve as accessible surveys of their subject matter it includes articles on the history of computing algorithms numerical techniques computational models typesetting and more this book will be appreciated by students and researchers from a wide range of areas within computer science and mathematics

Foundations of Computer Science

2019-03-21

computer science is a discipline that extents theory and practice it needs thinking both in abstract terms and in concrete terms the practical side of computing can be seen everywhere computer science also has strong connections to other disciplines many problems in science engineering health care business and other areas can be solved efficiently with computers but finding a solution requires both computer science expertise and knowledge of particular application domain computer science has a wide range of spheres these embrace computer architecture software systems graphics artificial intelligence computational science and software engineering drawing from a common core of computer science knowledge each speciality area emphases on particular challenges a handbook on computer science with appropriate diagrams whenever it is appropriate an extensive coverage of key points for additional information is also given this handbook covers all essential concepts and terms in computer science

Foundations of Computer Science

1994-10-15

this book introduces readers to some of the most significant advances in core computer science based technologies at the dawn of the 4th industrial revolution the field of computer science based technologies is growing continuously and rapidly and is developing both in itself and in terms of its applications in many other disciplines written by leading experts and consisting of 18 chapters the book is divided into seven parts 1 computer science based technologies in education 2 computer science based technologies in risk assessment and readiness 3 computer science based technologies in iot blockchains and electronic money 4 computer science based technologies in mobile computing 5 computer science based technologies in scheduling and transportation 6 computer science based technologies in medicine and biology and 7 theoretical advances in computer science with significant potential applications in technology featuring an extensive list of bibliographic references at the end of each chapter to help readers probe further into the application areas of interest to them this book is intended for professors researchers scientists engineers and students in computer science related disciplines it is also useful for those from other disciplines wanting to become well versed in some of the latest computer science based technologies

Selected Papers on Computer Science

1996-07-13

in this introductory text students will overview the many disciplines within computer

science with an emphasis on concepts rather than on mathematical models and technical details understanding is increased with some 300 figures and with examples that demonstrate concepts and mathematical models

Handbook on Computer Science

2016-02-02

first published in 1996 this collection of essays by distinguished computer scientists celebrates the achievements of research and speculates about the unsolved problems in computer science that require future investigation since the subject stretches from technology in the field through engineering design to foundations in mathematics there is a wide variety of concerns and approaches among the authors the book s purpose is to show that long term research in computer science is crucial and that it must not be driven solely by commercial considerations the authors do not shirk the difficult aspects of their topics but try to expose them in the simplest terms possible without diluting them in order that the reader can understand the issues involved thus the book also represents a broad overview of much of the state of knowledge and future expectations of computer science illustrating that it is much more than a technology and it is a fully fledged and growing intellectual discipline with its own engineering principles and its own scientific concepts and models it will be stimulating reading because it represents the views of prominent authorities who have had a significant impact on the direction of innovation research and development in computer science

Advances in Core Computer Science-Based Technologies

2020-06-18

this book provides the basic concepts and applications of discrete mathematics and graph theory the book is aimed at undergraduate students of computer science and engineering and information technology it is also suitable for undergraduate and postgraduate students of computer science mathematics and computer applications the book exposes the students to fundamental knowledge in mathematical logic tautology and normal forms predicate logic rules of inference and validity of arguments elementary set theory venn diagrams functions and their relations algebraic structure binary operation group theory and homomorphism theory of permutations and combinations binomial and multinomial theorems recurrence relations and methods of solving them graph theory spanning tree eulerian and hamiltonian circuits and isomorphism

Foundations of Computer Science

2003

computer science is that the study of computers and process systems it has many applications in day today life this scientific field deals largely with software system this includes their theory design development and application the major application areas of computer science include artificial intelligence and robotics image processing speech processing data mining visualization and post process parallelization optimization etc many modern computer science problems involve issues that decision theorists have addressed for years in particular issues involving consensus and associated order relations applications of methods of decision theory to problems of computer science place great strain on these methods due to the sheer size of the problems addressed limitations on information possessed and sequential nature of repeated applications hence there is great need to develop a new generation of methods to satisfy these requirements of cs applications this book entitled computer science and applications is dedicated to theories methods and applications in computer science it offers research and review articles from experts in the field promoting insight and understanding of the state of the art and trends in technology the book is intended to provide a valuable guide for researchers scientists engineers and academicians all over the world discussing various new issues and developments in different areas of computer sciences and applications this book is also aimed to explore the connections between computer science and decision models develop new decision theory based methodologies to the scope of modern cs problems and investigate their applications to problems of computer science

Elements of Computer Science

a tour of computer science concepts provides students with a solid foundational knowledge base within the discipline of computer science the opening chapter offers readers a concise overview of computer history including the development of computers and the birth of the internet additional chapters discuss the differences between analog and digital data as well as techniques to map one type to another number base systems data storage computer architecture and hardware components and system software and application software students learn about hypertext markup language html and cascading style sheets css fundamental programming concepts such as variable declaration assignment statements user input output conditional statements and loop control structures and functions are demonstrated through the use of javascript closing chapters cover computer networks data transmission between devices and the increased importance of cybersecurity in modern day computing each chapter features a summary review of key concepts and terms and discussion questions to enrich the learning experience succinct yet highly informative a tour of computer science concepts is an ideal resource for foundational courses in computer science

Computing Tomorrow

1996-07-13

this introductory computer science text provides a breadth first bottom up as opposed to top down approach first introducing the foundation of computer science and algorithms then building on each central idea hardware system software and virtual machines and languages before finally discussing common applications artificial intelligence and social and legal issues it is for cs0 the course students may take before cs1 for an overview and understanding of computer science without programming

MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE

2010-07-01

this new edition of invitation to computer science follows the breadth first guidelines recommended by cc2001 to teach computer science topics from the ground up the authors begin by showing that computer science is the study of algorithms the central theme of the book then move up the next five levels of the hierarchy hardware virtual machine software applications and ethics utilizing rich pedagogy and a consistently engaging writing style schneider and gersting provide students with a solid grounding in theoretical concepts as well as important applications of computing and information technology a laboratory manual and accompanying software is available as an optional bundle with this text

Computer Science and Applications

2018-06

explores basic concepts of theoretical computer science and shows how they apply to current programming practice coverage ranges from classical topics such as formal languages automata and compatibility to formal semantics models for concurrent computation and program semantics

A Tour of Computer Science Concepts

2022-07

An Invitation to Computer Science

1994

Invitation to Computer Science

2006

Theoretical Foundations of Computer Science

1987-05-15

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