

study com computer science

Study Com Computer Science: Unlocking the World of Technology and Innovation

study com computer science is a phrase that resonates with students, professionals, and tech enthusiasts aiming to dive deep into the realm of computing. Whether you're a beginner curious about coding or someone looking to expand your knowledge in algorithms, data structures, or software development, the resources and courses available on Study.com provide a robust platform to explore computer science comprehensively. This article will walk you through the essentials of studying computer science on Study.com, highlighting what makes it a valuable tool for learners at all levels.

Why Choose Study.com for Computer Science Education?

When it comes to learning computer science, the abundance of online platforms can be overwhelming. Study.com stands out because of its structured approach, flexibility, and accessibility. Unlike traditional classrooms, Study.com lets you learn at your own pace, revisiting complex topics as needed without the pressure of fixed schedules.

Moreover, Study.com's computer science courses are designed with clear learning objectives, interactive quizzes, and video lectures that break down complicated concepts into digestible segments. This is particularly beneficial for visual learners who grasp information better through illustrations and demonstrations.

Comprehensive Curriculum for All Levels

One of the most appealing aspects of Study.com's computer science program is the breadth of topics covered. From foundational programming languages such as Python, Java, and C++, to advanced subjects like artificial intelligence, machine learning, and cybersecurity, the curriculum caters to diverse interests and career goals.

Students can start with introductory courses to build a solid understanding of basic principles like computational thinking, algorithms, and data structures. As they advance, they can tackle specialized subjects like database management systems, operating systems, and software engineering methodologies.

Flexibility and Accessibility

Life can be busy, and not everyone has the luxury to attend traditional classes. Study.com addresses this by offering courses that are accessible 24/7 from any device with internet connectivity. This flexibility allows learners to integrate studying into their daily routines, whether during a commute, lunch break, or late at night.

Additionally, Study.com offers mobile-friendly content, making it easy for students to study on the go. This accessibility breaks down barriers to education, making computer science knowledge attainable regardless of geographical location or time constraints.

Key Features of Study.com's Computer Science Content

Understanding what makes Study.com's computer science courses effective can help you maximize your learning experience. Here are some standout features:

Video Lessons and Practical Examples

Rather than solely relying on textbooks, Study.com uses engaging video lessons to explain complex topics. These videos often include real-world examples and coding demonstrations, which help contextualize abstract concepts. For example, when learning about sorting algorithms, students can see animations that visualize how these algorithms work step-by-step.

Interactive Quizzes and Assessments

To reinforce learning, Study.com integrates quizzes after each lesson. These assessments provide immediate feedback, allowing learners to identify areas that need improvement. This active recall method is proven to enhance retention and understanding, which is crucial in a field as technical as computer science.

Credit-Eligible Courses and Certificates

For those pursuing formal education or career advancement, Study.com offers credit-eligible courses recognized by many colleges. Completing these courses can earn you transferable college credits, potentially saving time and money in your academic journey. Additionally, certificates of completion can be added to resumes or LinkedIn profiles, showcasing your commitment and expertise to potential employers.

How to Make the Most of Your Study.com Computer Science Experience

Studying computer science online requires discipline, curiosity, and strategic planning. Here are some tips to help you thrive while using Study.com:

Create a Consistent Study Schedule

Even though Study.com offers flexibility, setting aside dedicated time daily or weekly for studying can lead to better outcomes. Consistency helps reinforce learning and prevents procrastination.

Practice Coding Regularly

Computer science is a hands-on discipline. Complement your theoretical study by writing code regularly. Use online coding platforms such as GitHub, LeetCode, or HackerRank to practice problems related to what you learn on Study.com.

Engage with Supplementary Resources

While Study.com provides a solid foundation, exploring additional materials like textbooks, forums, and coding tutorials can deepen your understanding. Participating in online communities like Stack Overflow or Reddit's r/learnprogramming can offer support and insight from fellow learners and professionals.

Apply Knowledge Through Projects

Building projects is one of the most effective ways to apply what you've learned. Whether it's a simple calculator app or a more complex website, hands-on projects help solidify concepts and demonstrate your skills to future employers.

Career Opportunities with a Study.com Computer Science Background

The demand for computer science professionals continues to grow, fueled by digital transformation across industries. By leveraging Study.com's computer science courses, you can open doors to various exciting career paths.

Software Development and Engineering

Many students use Study.com to prepare for roles as software developers or engineers. These positions involve designing, coding, testing, and maintaining software applications. Proficiency in programming languages and problem-solving are key here.

Data Science and Analytics

With the explosion of data in recent years, data scientists and analysts are in high demand. Courses that cover data structures, algorithms, and statistics can help you transition into this field.

Cybersecurity Specialist

As cyber threats increase, so does the need for experts who can protect networks and systems. Study.com's cybersecurity modules provide foundational knowledge to start in this vital area.

Artificial Intelligence and Machine Learning

For those fascinated by automation and intelligent systems, specializing in AI and machine learning can be highly rewarding. Understanding the underlying algorithms and mathematics involved is crucial, and Study.com offers courses to get you started.

Integrating Study.com Computer Science into Your Learning Journey

Whether you're a high school student exploring career options, a college student supplementing your coursework, or a working professional seeking to upskill, Study.com can fit seamlessly into your learning path.

It's worth noting that combining Study.com with hands-on experiences such as internships, coding boot camps, or contributing to open-source projects can amplify your growth. The theory you gain online becomes more meaningful when applied in real-world contexts.

Additionally, many Study.com courses are designed to help learners prepare for certification exams, like CompTIA or Microsoft certifications, which further enhance your credentials.

Embarking on the journey to study com computer science through a platform like Study.com empowers you to grasp the fundamentals and complexities of computing at your own pace. With its comprehensive curriculum, engaging content, and flexible access, Study.com serves as a valuable ally for anyone eager to unlock the vast possibilities that computer science offers. Whether you're aiming to build a career in technology or simply want to understand how the digital world works, the resources available can guide you toward achieving your goals.

Frequently Asked Questions

What is Study.com Computer Science?

Study.com Computer Science is an online learning platform offering courses, lessons, and resources in computer science topics ranging from programming to data structures and algorithms.

Can Study.com help me learn programming languages?

Yes, Study.com offers courses in various programming languages such as Python, Java, C++, and JavaScript, suitable for beginners and advanced learners.

Are Study.com Computer Science courses accredited?

Many Study.com courses are designed to be transferable for college credit and are accredited through partnerships with recognized institutions.

How do Study.com Computer Science courses support beginners?

Courses include video lessons, quizzes, and practical exercises that break down complex concepts into easy-to-understand segments, ideal for beginners.

Can I prepare for computer science certifications using Study.com?

Yes, Study.com provides study guides and courses tailored for certifications like CompTIA, Cisco, and more, helping learners prepare effectively.

Does Study.com offer a computer science degree program?

While Study.com itself does not grant degrees, it offers courses that can transfer credits toward accredited degree programs at partner institutions.

What topics are covered in Study.com's computer science curriculum?

Topics include programming, algorithms, data structures, computer architecture, software development, databases, and cybersecurity.

Is Study.com suitable for self-paced learning in

computer science?

Yes, Study.com allows learners to study at their own pace with flexible access to course materials and assessments.

How does Study.com compare to other online platforms for computer science learning?

Study.com offers structured courses with college credit options, which may be more formal compared to platforms like Coursera or Udemy that focus more on individual courses.

Additional Resources

Study com Computer Science: An In-Depth Review and Analysis

study com computer science has become a frequently searched term by students and professionals aiming to deepen their understanding of computational theory, programming, and information technology. As education increasingly shifts to online platforms, Study.com has emerged as a notable resource for learners seeking flexible and comprehensive computer science courses. This article examines the offerings, strengths, and limitations of Study.com's computer science content, providing a professional and analytical perspective that can assist prospective students or educators in making informed decisions.

Understanding Study.com's Approach to Computer Science Education

Study.com positions itself as a versatile online learning platform, offering a wide range of subjects, including computer science, designed to cater to high school, college, and even continuing education audiences. The platform emphasizes bite-sized video lessons, interactive quizzes, and self-paced study modules. For computer science learners, this translates into accessible content covering foundational topics such as algorithms, data structures, programming languages, and software engineering principles.

One of the platform's defining features is its ability to integrate academic credit opportunities through partnerships with accredited institutions. For individuals interested in earning college credits, Study.com's computer science courses can be an efficient alternative to traditional classroom environments. The platform also supports exam preparation for certifications, which is increasingly relevant in the IT job market.

Course Content and Curriculum Quality

Study.com's computer science curriculum is structured to build from basic concepts to

more advanced topics, facilitating a step-by-step mastery of the subject. Learners can explore areas including:

- Introduction to Computer Science
- Programming Fundamentals (Python, Java, C++)
- Data Structures and Algorithms
- Database Management Systems
- Software Development Lifecycle
- Computer Architecture and Networking

The video lessons are typically concise, lasting between 5 to 15 minutes, which caters well to modern learners' preferences for short, digestible content. Accompanying quizzes help reinforce material comprehension and provide immediate feedback, an important feature for self-directed education.

However, while the breadth of topics is commendable, the depth of coverage sometimes varies. Advanced learners or those seeking highly technical or specialized subjects, such as artificial intelligence or cybersecurity, might find the offerings somewhat limited compared to dedicated computer science degree programs or specialized online platforms like Coursera or edX.

Flexibility and Learning Experience

A significant advantage of Study.com's computer science courses is their flexibility. Students can progress at their own pace, revisiting lessons as needed without the pressure of fixed schedules. This is especially beneficial for working professionals or students balancing multiple commitments.

The platform's interface is user-friendly, with clear navigation between lessons, quizzes, and progress tracking features. Additionally, Study.com offers mobile accessibility, allowing learners to study on the go, which aligns with current trends in digital education.

On the downside, Study.com's model is subscription-based, which may not suit all budgets. While the monthly fee covers access to all courses, learners seeking only computer science content might find more cost-effective options elsewhere if they are unwilling or unable to commit for extended periods.

Comparative Analysis: Study.com Versus Other

Online Computer Science Platforms

When evaluating Study.com's computer science courses, it is essential to consider how they compare with other prominent online education providers such as Coursera, Udemy, Khan Academy, and edX.

- **Content Depth:** Platforms like Coursera and edX often partner with top universities, providing in-depth courses and specialization tracks. Study.com's content tends to be more introductory and geared towards foundational knowledge.
- **Certification and Credit:** Study.com's ability to offer transferable college credits is a significant competitive advantage. In contrast, some platforms provide certificates of completion that may not carry academic credit.
- **Pricing Model:** Study.com uses a subscription model granting access to all courses, whereas Udemy typically sells courses individually, and Coursera offers both free and paid options, including financial aid.
- **Interactivity and Support:** Study.com includes quizzes and progress tracking but lacks live instructor interaction or peer forums commonly found on other platforms.

For learners prioritizing flexibility and credit acquisition, Study.com represents a practical choice. Those seeking deep specialization or networking opportunities might explore other platforms with more diverse engagement models.

Who Should Consider Study.com for Computer Science?

The ideal candidate for Study.com's computer science courses includes:

1. High school or early college students seeking a supplementary resource to reinforce classroom learning.
2. Adult learners or career changers requiring foundational computer science knowledge before pursuing advanced studies or certifications.
3. Individuals interested in earning college credits in a cost-effective and flexible manner.
4. Self-directed learners who prefer concise video lessons and immediate quiz feedback over lengthy lectures.

Conversely, students aiming for in-depth specialization or research-oriented computer science education might find Study.com's offerings insufficient.

Technical Features and Platform Usability

From a usability perspective, Study.com employs a clean and intuitive layout that minimizes cognitive overload. The video player supports subtitles and variable playback speeds, accommodating diverse learning preferences and accessibility needs. Progress dashboards track course completion and quiz performance, helping learners maintain motivation and accountability.

The platform's search functionality allows easy navigation across its extensive course catalog, including the computer science section. Additionally, Study.com's mobile app supports offline viewing, an essential feature for learners with inconsistent internet access.

One notable limitation is the absence of hands-on coding environments integrated within the platform. Unlike platforms such as Codecademy or freeCodeCamp, Study.com does not provide in-browser interactive coding exercises. This gap may affect learners who benefit from immediate practical application of programming concepts.

Credibility and Accreditation

Study.com's computer science courses are developed by subject matter experts and often align with academic standards. The platform's transfer credit program is approved by the American Council on Education (ACE), lending credibility to its courses and enhancing their value for students seeking recognized academic credit.

Nevertheless, Study.com is not a degree-granting institution; its courses serve as supplements or pathways to formal education. Prospective learners should verify credit transfer policies with their target institutions prior to enrollment.

Future Trends and Study.com's Position in Computer Science Education

As computer science continues to evolve rapidly, online education platforms must adapt to emerging technologies and learner expectations. Study.com's current model emphasizes foundational knowledge and flexibility, which remains valuable given the broad demand for computer science literacy.

To maintain competitiveness, Study.com might consider incorporating more interactive coding labs, expanding advanced topic offerings, and fostering community engagement through forums or live sessions. Integration of emerging fields such as machine learning, data science, and cybersecurity would also align with market trends and learner interests.

Meanwhile, the platform's emphasis on credit-bearing courses positions it well for students seeking practical pathways into higher education or career advancement, especially in an increasingly online academic landscape.

The landscape of computer science education is diverse and dynamic, and Study.com's offerings contribute meaningfully to this ecosystem by providing accessible, flexible, and credit-eligible learning options. For many learners, especially those prioritizing convenience and structured foundational content, study com computer science courses present a viable and effective resource.

[Study Com Computer Science](#)

study com computer science: Guide to Teaching Computer Science Orit Hazzan, Noa Ragonis, Tami Lapidot, 2020-08-05 This concise yet thorough textbook presents an active-learning model for the teaching of computer science. Offering both a conceptual framework and detailed implementation guidelines, the work is designed to support a Methods of Teaching Computer Science (MTCS) course, but may be applied to the teaching of any area of computer science at any level, from elementary school to university. This text is not limited to any specific curriculum or programming language, but instead suggests various options for lesson and syllabus organization. Fully updated and revised, the third edition features more than 40 new activities, bringing the total to more than 150, together with new chapters on computational thinking, data science, and soft concepts and soft skills. This edition also introduces new conceptual frameworks for teaching such as the MERge model, and new formats for the professional development of computer science educators. Topics and features: includes an extensive set of activities, to further support the pedagogical principles outlined in each chapter; discusses educational approaches to computational thinking, how to address soft concepts and skills in a MTCS course, and the pedagogy of data science (NEW); focuses on teaching methods, lab-based teaching, and research in computer science education, as well as on problem-solving strategies; examines how to recognize and address learners' misconceptions, and the different types of questions teachers can use to vary their teaching methods; provides coverage of assessment, teaching planning, and designing a MTCS course; reviews high school teacher preparation programs, and how prospective teachers can gain experience in teaching computer science. This easy-to-follow textbook and teaching guide will prove invaluable to computer science educators within all frameworks, including university instructors and high school teachers, as well as to instructors of computer science teacher preparation programs.

study com computer science: Effective Computer Science Education in K-12 Classrooms Kert, Serhat Bahadır, 2024-12-13 The growing influence of information technologies in everyday life has underscored the increasing importance of computer science education. The goal of computer science education is not merely to teach students how to code but to develop individuals with strong problem-solving abilities. Pedagogy-driven concepts such as computational thinking and computational participation highlight the problem-solving dimension of computer science and are shaping learning approaches worldwide. Effective instructional design is critical for environments where these concepts are taught. The proposed book, Effective Computer Science Education in K-12 Classrooms, aims to offer a scientific and holistic instructional roadmap for educators at the K-12 level. By detailing concrete educational approaches, this book will provide valuable insights and strategies to enhance the quality and efficiency of computer science education. It will serve as a guide for educators seeking to develop content and teaching methods that are both pedagogically sound and highly effective in building problem-solving skills among students.

study com computer science: College Credit Playbook Kristina Niles-Adler, Cut years off your college journey while saving \$15,000-\$30,000 or more in tuition. High school student, working adult, homeschool family, or just tired of wasting time, this book gives you the exact strategies to get enough credit for an associate degree in 4-6 months.

study com computer science: Quantum Computing Rajkumar Buyya, Sukhpal Singh Gill,

2025-07-01 Quantum Computing: Principles and Paradigms covers a broad range of topics, providing a state-of-the-art and comprehensive reference for the rapid progress in the field of quantum computing and related technologies from major international companies (such as IBM, Google, Intel, Rigetti, Q-Control) and academic researchers. This book appeals to a broad readership, as it covers comprehensive topics in the field of quantum computing, including hardware, software, algorithms, and applications, with chapters written by both academic researchers and industry developers. This book presents readers with the fundamental concepts of quantum computing research, along with the challenges involved in developing practical devices and applications. - Covers key topics such as quantum hardware development, quantum error correction, quantum simulations and algorithms, and quantum software development - Includes coverage of practical applications of quantum computing in a variety of research and development fields, such as quantum chemistry simulations, quantum finance, quantum traffic routing, and more - Presents state-of-the-art research in the field of quantum computing, covering the latest key developments and future directions

study com computer science: Handbook of Research on Using Educational Robotics to Facilitate Student Learning Papadakis, Stamatios, Kalogiannakis, Michail, 2020-12-05 Over the last few years, increasing attention has been focused on the development of children's acquisition of 21st-century skills and digital competences. Consequently, many education scholars have argued that teaching technology to young children is vital in keeping up with 21st-century employment patterns. Technologies, such as those that involve robotics or coding apps, come at a time when the demand for computing jobs around the globe is at an all-time high while its supply is at an all-time low. There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking, algorithmic thinking, and project management. Additionally, recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering. The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps. The book argues that while learning about computing, young people should also have opportunities to create with computing, which have a direct impact on their lives and their communities. It develops two key dimensions for understanding and developing educational experiences that support students in engaging in computational action: (1) computational identity, which shows the importance of young people's development of scientific identity for future STEM growth; and (2) digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways. Covering subthemes including student competency and assessment, programming education, and teacher and mentor development, this book is ideal for teachers, instructional designers, educational technology developers, school administrators, academicians, researchers, and students.

study com computer science: Where "Something Catches" Victoria I. Munoz, 1995-10-12 Helps people working with youth think in new ways about the relationships between work, love, and identity and how these interact within the socio-political processes of class, race, gender, and sexuality.

study com computer science: Explainable Artificial Intelligence for Smart Cities Mohamed Lahby, Utku Kose, Akash Kumar Bhoi, 2021-11-09 Thanks to rapid technological developments in terms of Computational Intelligence, smart tools have been playing active roles in daily life. It is clear that the 21st century has brought about many advantages in using high-level computation and communication solutions to deal with real-world problems; however, more technologies bring more changes to society. In this sense, the concept of smart cities has been a widely discussed topic in terms of society and Artificial Intelligence-oriented research efforts. The rise of smart cities is a transformation of both community and technology use habits, and there are many different research orientations to shape a better future. The objective of this book is to focus on Explainable Artificial Intelligence (XAI) in smart city development. As recently designed,

advanced smart systems require intense use of complex computational solutions (i.e., Deep Learning, Big Data, IoT architectures), the mechanisms of these systems become 'black-box' to users. As this means that there is no clear clue about what is going on within these systems, anxieties regarding ensuring trustworthy tools also rise. In recent years, attempts have been made to solve this issue with the additional use of XAI methods to improve transparency levels. This book provides a timely, global reference source about cutting-edge research efforts to ensure the XAI factor in smart city-oriented developments. The book includes both positive and negative outcomes, as well as future insights and the societal and technical aspects of XAI-based smart city research efforts. This book contains nineteen contributions beginning with a presentation of the background of XAI techniques and sustainable smart-city applications. It then continues with chapters discussing XAI for Smart Healthcare, Smart Education, Smart Transportation, Smart Environment, Smart Urbanization and Governance, and Cyber Security for Smart Cities.

study com computer science: Computer Game Development and Animation Tracy Brown Hamilton, 2020-01-15 Welcome to the Computer Game Development & Animation field! If you are interested in a career in the computer gaming field, you've come to the right book. So what exactly do these people do on the job, day in and day out? What kind of skills and educational background do you need to succeed in these fields? How much can you expect to make, and what are the pros and cons of these various fields? Is this even the right career path for you? How do you avoid burnout and deal with stress? This book can help you answer these questions and more. This book, which includes interviews with professionals in the field, covers the following areas of this field that have proven to be stable, lucrative, and growing professions. Artist/AnimatorProducerSound DesignerVideo Game DesignerVideo Game DeveloperVideo Game TesterWriter

study com computer science: Teaching Formal Methods C. Neville Dean, Raymond T. Boute, 2004-11-17 This book constitutes the refereed proceedings of the CoLogNet/FME Symposium on Teaching Formal Methods, TFM 2004, held in Ghent, Belgium in November 2004. The 15 revised full papers presented together with an invited paper and 2 abstracts of invited talks were carefully reviewed and selected from numerous submissions. The papers presented explore the failures and successes of formal methods education, consider how the failures might be resolved, evaluate how to learn from the successes, and attempt promoting cooperative projects to further the teaching and learning and the usage and acceptance of formal methods.

study com computer science: Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments Curran, Kevin, 2012-09-30 Ambient intelligence began as a vision for the future of technology and has now become a reality. The widespread use of modern technology has quickly expanded into the use of our everyday lives. On a daily basis, we are instantly connected to people, places, ideas, and information which have led to the acceleration of knowledge. As the continuing development of new technologies becomes available, those technologies will play an integral role in the future. Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments is a collection of research on the subject matter of human computer interaction, ubiquitous computing, embedded systems, and other areas of study which contribute to ambient intelligence. This comprehensive reference aims to broaden the overall knowledge on ambient intelligence as it relates to the aspects of modern life.

study com computer science: The Latino Student's Guide to STEM Careers Laura I. Rendón, Vijay Kanagala, 2017-09-08 This book is an essential resource that Latino/a students and families need to make the best decisions about entering and succeeding in a STEM career. It can also serve to aid faculty, counselors, and advisors to assist students at every step of entering and completing a STEM career. As a fast-growing, major segment of the U.S. population, the next generation of Latinos and Latinas could be key to future American advances in science and technology. With the appropriate encouragement for Latinos/as to enter science, technology, engineering, and mathematics (STEM) careers, they can become the creative innovators who will produce technological advances we all need and can enjoy—from faster tech devices to more energy efficient transportation to cures for diseases and medical conditions. This book presents a compelling case

that the nation's Hispanic population must be better represented in STEM careers and that the future of America's technological advances may well depend on the Latino/a population. It focuses on the importance of STEM education for Latinos/as and provides a comprehensive array of the most current information students and families need to make informed decisions about entering and succeeding in a STEM career. Students, families, and educators will fully understand why STEM is so important for Latinos/as, how to plan for a career in STEM, how to pay for and succeed in college, and how to choose a career in STEM. The book also includes compelling testimonials of Latino/a students who have completed a STEM major that offer proof that Latinos/as can overcome life challenges to succeed in STEM fields.

study com computer science: Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences Rückemann, Claus-Peter, 2012-10-31 The 21st century has seen a number of advancements in technology, including the use of high performance computing. Computing resources are being used by the science and economy fields for data processing, simulation, and modeling. These innovations aid in the support of production, logistics, and mobility processes. Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences covers a carefully selected spectrum of the most up to date issues, revealing the benefits, dynamism, potential, and challenges of information and computing system application scenarios and components from a wide spectrum of prominent disciplines. This comprehensive collection offers important guidance on the development stage of the universal solution to information and computing systems for researchers as well as industry decision makers and developers.

study com computer science: Advanced Intelligent Computing Technology and Applications De-Shuang Huang, Chuanlei Zhang, Qinhu Zhang, 2024-07-29 This 13-volume set LNCS 14862-14874 constitutes - in conjunction with the 6-volume set LNAI 14875-14880 and the two-volume set LNBI 14881-14882 - the refereed proceedings of the 20th International Conference on Intelligent Computing, ICIC 2024, held in Tianjin, China, during August 5-8, 2024. The total of 863 regular papers were carefully reviewed and selected from 2189 submissions. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was Advanced Intelligent Computing Technology and Applications. Papers that focused on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

study com computer science: Coders Clive Thompson, 2019-03-26 Hello, world. Facebook's algorithms shaping the news. Self-driving cars roaming the streets. Revolution on Twitter and romance on Tinder. We live in a world constructed of code--and coders are the ones who built it for us. From acclaimed tech writer Clive Thompson comes a brilliant anthropological reckoning with the most powerful tribe in the world today, computer programmers, in a book that interrogates who they are, how they think, what qualifies as greatness in their world, and what should give us pause. They are the most quietly influential people on the planet, and Coders shines a light on their culture. In pop culture and media, the people who create the code that rules our world are regularly portrayed in hackneyed, simplified terms, as ciphers in hoodies. Thompson goes far deeper, dramatizing the psychology of the invisible architects of the culture, exploring their passions and their values, as well as their messy history. In nuanced portraits, Coders takes us close to some of the great programmers of our time, including the creators of Facebook's News Feed, Instagram, Google's cutting-edge AI, and more. Speaking to everyone from revered 10X elites to neophytes, back-end engineers and front-end designers, Thompson explores the distinctive psychology of this vocation--which combines a love of logic, an obsession with efficiency, the joy of puzzle-solving, and a superhuman tolerance for mind-bending frustration. Along the way, Coders thoughtfully ponders the morality and politics of code, including its implications for civic life and the economy. Programmers shape our everyday behavior: When they make something easy to do, we do more of it.

When they make it hard or impossible, we do less of it. Thompson wrestles with the major controversies of our era, from the disruption fetish of Silicon Valley to the struggle for inclusion by marginalized groups. In his accessible, erudite style, Thompson unpacks the surprising history of the field, beginning with the first coders -- brilliant and pioneering women, who, despite crafting some of the earliest personal computers and programming languages, were later written out of history. *Coders* introduces modern crypto-hackers fighting for your privacy, AI engineers building eerie new forms of machine cognition, teenage girls losing sleep at 24/7 hackathons, and unemployed Kentucky coal-miners learning a new career. At the same time, the book deftly illustrates how programming has become a marvelous new art form--a source of delight and creativity, not merely danger. To get as close to his subject as possible, Thompson picks up the thread of his own long-abandoned coding skills as he reckons, in his signature, highly personal style, with what superb programming looks like. To understand the world today, we need to understand code and its consequences. With *Coders*, Thompson gives a definitive look into the heart of the machine.

study com computer science: The Evolution of Computer Technology Haq Kamar, 2018-07-15 Today it seems that computers occupy every single space in life. This book traces the evolution of computers from the humble beginnings as simple calculators up to the modern day jack-of-all trades devices like the iPhone. Readers will learn about how computers evolved from humongous military-issue refrigerators to the spiffy, delicate, and intriguing devices that many modern people feel they can't live without anymore. Readers will also discover the historical significance of computers, and their pivotal roles in World War II, the Space Race, and the emergence of modern Western powers.

study com computer science: Who Invented the Computer? Alice R. Burks, 2010-10-29 In 1973, Federal District Judge Earl R. Larson issued a ruling in a patent case that was to have profound and long-lasting implications for the dawning computer revolution. Against all expectations, the judge ruled against Sperry Rand Corp., which claimed to hold the patent on the first computer dubbed the ENIAC and was demanding huge royalties on all electronic data processing sales by Honeywell Inc. and other large competitors. The judge came to the conclusion that in fact the ENIAC was not the first computer but was a derivative of an obscure computer called the ABC, which had been developed in the late thirties by a largely unknown professor of physics and mathematics at Iowa State University, named John V. Atanasoff. Looking back today from our digital world at what was then a little-publicized trial, it is clear that the judge's decision had enormous repercussions. If Judge Larson had ruled the other way, in favor of the patent claim, subsequent manufacturers of computing hardware would have had to obtain a license from Sperry Rand, and the course of computing history would likely have been very different from the galloping revolution we have all witnessed in the past three decades. This book centers on this crucial trial, arguing that Judge Larson correctly evaluated the facts and made the right decision, even though many in the computing community have never accepted Atanasoff as the legitimate inventor of the electronic computer. With meticulous research, Alice Rowe Burks examines both the trial and its aftermath, presenting telling evidence in convincing and absorbing fashion, and leaving no doubt about the actual originator of what has been called the greatest invention of the 20th century.

study com computer science: African American Males and Education T. Elon Dancy II, M. Christopher Brown, 2012-10-01 *African American Males in Education: Researching the Convergence of Race and Identity* addresses a number of research gaps. This book emerges at a time when new social dynamics of race and other identities are shaping, but also shaped by, education. Educational settings consistently perpetuate racial and other forms of privilege among students, personnel, and other participants in education. For instance, differential access to social networks still visibly cluster by race, continuing the work of systemic privilege by promoting outcome inequalities in education and society. The issues defining the relationship between African American males and education remain complex. Although there has been substantial discussion about the plight of African American male participants and personnel in education, only modest attempts have been made to center analysis of identity and identity intersections in the discourse. Additionally, more

attention to African American male teachers and faculty is needed in light of their unique cultural experiences in educational settings and expectations to mentor and/or socialize other African Americans, particularly males.

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