# **Computer Science In The Military**

**computer science in the military:** *Using Computer Science in Military Service* Xina M. Uhl, 2018-12-15 Computers play an integral role in the military's primary goal, defending the nation and its interests, and will continue to do so in the foreseeable future. Opportunities for computer science coding careers abound in weapons design, advanced robotics, artificial intelligence, sophisticated drones, and the ever-evolving, and ever-important field of cyber warfare. This compelling, extensive book provides solid career guidance specific to the military's organization. It offers ideas for employment with civilian organizations that serve the armed forces' technology needs. It is perfect for readers who are considering both full-time and part-time service, whether for an entire career or limited tours of duty.

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computer science in the military: Applications of Mathematics and Informatics in Military Science Nicholas Daras, 2012-08-18 Analysis, assessment, and data management are core tools required for operation research analysts. The April 2011 conference held at the Helenic Military Academy addressed these issues with efforts to collect valuable recommendations for improving analysts' capabilities to assess and communicate the necessary qualitative data to military leaders. This unique volume is an outgrowth of the April conference and comprises of contributions from the fields of science, mathematics, and the military, bringing Greek research findings to the world. Topics cover a wide variety of mathematical methods used with application to defense and security. Each contribution considers directions and pursuits of scientists that pertain to the military as well as the theoretical background required for methods, algorithms, and techniques used in military applications. The direction of theoretical results in these applications is conveyed and open problems and future areas of focus are highlighted. A foreword will be composed by a member of N.A.T.O. or a ranking member of the armed forces. Topics covered include: applied OR and military applications, signal processing, scattering, scientific computing and applications, combat simulation and statistical modeling, satellite remote sensing, and applied informatics - cryptography and coding. The contents of this volume will be of interest to a diverse audience including military operations research analysts, the military community at large, and practitioners working with mathematical methods and applications to informatics and military science.

**computer science in the military:** *Information Technology and Military Power* Jon R. Lindsay, 2020-07-15 Militaries with state-of-the-art information technology sometimes bog down in confusing conflicts. To understand why, it is important to understand the micro-foundations of military power in the information age, and this is exactly what Jon R. Lindsay's Information Technology and Military Power gives us. As Lindsay shows, digital systems now mediate almost every effort to gather, store, display, analyze, and communicate information in military organizations. He highlights how personnel now struggle with their own information systems as much as with the enemy. Throughout this foray into networked technology in military operations, we see how information practice—the ways in which practitioners use technology in actual operations—shapes the effectiveness of military performance. The quality of information practice depends on the interaction between strategic

problems and organizational solutions. Information Technology and Military Power explores information practice through a series of detailed historical cases and ethnographic studies of military organizations at war. Lindsay explains why the US military, despite all its technological advantages, has struggled for so long in unconventional conflicts against weaker adversaries. This same perspective suggests that the US retains important advantages against advanced competitors like China that are less prepared to cope with the complexity of information systems in wartime. Lindsay argues convincingly that a better understanding of how personnel actually use technology can inform the design of command and control, improve the net assessment of military power, and promote reforms to improve military performance. Warfighting problems and technical solutions keep on changing, but information practice is always stuck in between.

**computer science in the military: Purely Functional Data Structures** Chris Okasaki, 1999-06-13 This book describes data structures and data structure design techniques for functional languages.

**computer science in the military:** <u>Top Secret Science in the Military</u> James Bow, 2019 What isn't top secret in the military? Readers will be intrigued by the scientific ingenuity (past and present) brought about by wartime need, from field medicine innovations to weapons. A concluding chapter features tomorrow's secrets, or what military research is likely to yield in the future.

computer science in the military: Military Logistics Vasileios Zeimpekis, George Kaimakamis, Nicholas J. Daras, 2014-11-25 This book highlights recent advances in the development of effective modeling and solution approaches to enhance the performance of military logistics. It seeks to further research in global defense-related topics, including military operations, governmental operations and security, as well as nation support. Additionally its purpose is to promote the global exchange of information and ideas amongst developers and users of military operations research tools and techniques. Over the course of its nine chapters, this edited volume addresses significant issues in military logistics including: a) Restructuring processes via OR methods aimed at improving the efficiency and effectiveness of the military logistics, b) Sense-and-Respond logistics prediction and coordination techniques that provide competitive advantage, spanning the full range of military operations across the strategic, operational and tactical levels of war, c) Procurement and auctioning, d) Inventory and stock control theories and applications, e) Military transport and logistical equipment, and, f) Maintenance, repair and overhaul on operational capability in general and equipment availability. The book aims to bridge the gap between the abundant literature on commercial logistics and its scarce defense & combat counterpart. This collection of useful insights into new trends and research will offer an ideal reference for practitioners and army related personnel interested in integrating scientific rigor to improve logistics management within defense organizations & agencies. Ultimately this book should provide a relevant platform for the latest contributions of operations management, operations research, and computational intelligence towards the enhancement of military logistics.

**computer science in the military: Air Traffic Control** United States. Department of the Air Force, 1992

**computer science in the military: The Engineering Duty Officer (general)** United States. Bureau of Naval Personnel, 1963

**computer science in the military:** <u>Military Enterprise and Technological Change</u> Merritt Roe Smith, 1985 In this book, historians of technology bring their special expertise to probing the influence of the military on technological development over a broad range of history and in a variety of cases.

computer science in the military: Military and Civilian Control of Computer Security Issues United States. Congress. House. Committee on Government Operations. Legislation and National Security Subcommittee, 1989

**computer science in the military: Funding a Revolution** National Research Council, Computer Science and Telecommunications Board, Committee on Innovations in Computing and Communications: Lessons from History, 1999-02-11 The past 50 years have witnessed a revolution in computing and related communications technologies. The contributions of industry and university researchers to this revolution are manifest; less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum. Funding a Revolution examines the history of computing since World War II to elucidate the federal government's role in funding computing research, supporting the education of computer scientists and engineers, and equipping university research labs. It reviews the economic rationale for government support of research, characterizes federal support for computing research, and summarizes key historical advances in which government-sponsored research played an important role. Funding a Revolution contains a series of case studies in relational databases, the Internet, theoretical computer science, artificial intelligence, and virtual reality that demonstrate the complex interactions among government, universities, and industry that have driven the field. It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it.

**computer science in the military:** <u>@WAR</u> Shane Harris, 2014 An investigation into how the Pentagon, NSA, and other government agencies are uniting with corporations to fight in cyberspace, the next great theater of war.

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**computer science in the military: Introduction to Cyber-Warfare** Paulo Shakarian, Jana Shakarian, Andrew Ruef, 2013-05-16 Introduction to Cyber-Warfare: A Multidisciplinary Approach, written by experts on the front lines, gives you an insider's look into the world of cyber-warfare through the use of recent case studies. The book examines the issues related to cyber warfare not only from a computer science perspective but from military, sociological, and scientific perspectives as well. You'll learn how cyber-warfare has been performed in the past as well as why various actors rely on this new means of warfare and what steps can be taken to prevent it. - Provides a multi-disciplinary approach to cyber-warfare, analyzing the information technology, military, policy, social, and scientific issues that are in play - Presents detailed case studies of cyber-attack including inter-state cyber-conflict (Russia-Estonia), cyber-attack as an element of an information operations strategy (Israel-Hezbollah,) and cyber-attack as a tool against dissidents within a state (Russia, Iran) - Explores cyber-attack conducted by large, powerful, non-state hacking organizations such as Anonymous and LulzSec - Covers cyber-attacks directed against infrastructure, such as water treatment plants and power-grids, with a detailed account of Stuxent

computer science in the military: Military Ethics and Emerging Technologies Timothy J. Demy, George R. Lucas Jr., Bradley J. Strawser, 2016-01-08 This volume looks at current and emerging technologies of war and some of the ethical issues surrounding their use. Although the nature and politics of war never change, the weapons and technologies used in war do change and are always undergoing development. Because of that, the arsenal of weapons for twenty-first century conflict is different from previous centuries. Weapons in today's world include an array of instruments of war that include, robotics, cyber war capabilities, human performance enhancement for warriors, and the proliferation of an entire spectrum of unmanned weapons systems and platforms. Tactical weapons now have the potential of strategic results and have changed the understanding of the battle space creating ethical, legal, and political issues unknown in the pre-9/11 world. What do these technologies mean for things such as contemporary international relations, the just-war tradition, and civil-military relations? Directed at readers in the academic, scientific, military, and public policy communities, this volume offers current thought on ethics and emerging technologies from internationally-recognized scholars addressing the full spectrum of issues in present warfare technology. It includes current and ongoing topics of multi-discipline and international interest, such as ethics, law, international relations, war studies, public policy, science and technology. This book was originally published in various issues and volumes of the Journal of Military Ethics.

computer science in the military: Encyclopedia of Computer Science and Technology Harry

Henderson, 2009 Presents an illustrated A-Z encyclopedia containing approximately 600 entries on computer and technology related topics.

**computer science in the military: Black American Military Leaders** Walter L. Hawkins, 2016-04-27 This book is a revision, with greatly expanded inclusion criteria, of the 1993 African American Generals and Flag Officers: Biographies of Over 120 Blacks in the United States Military. It offers detailed, career-oriented summaries for men and women who often overcame societal obstacles to become ranking members of the armed forces. Persons from all branches are now included (Army, Navy, Air Force and Marine Corps), as well as the National Guard and Reserves.

**computer science in the military:** *Military Construction Appropriations for 1970* United States. Congress. House. Appropriations, 1969

**computer science in the military:** <u>U.S. National Security and Military/commercial Concerns</u> <u>with the People's Republic of China</u> United States. Congress. House. Select Committee on U.S. National Security and Military/Commercial Concerns with the People's Republic of China, 1999 May 25, 1999--declassified, in part, pursuant to House Resolution 5, as amended, 106th Congress, 1st session--Added title page.

**computer science in the military: The Art and Science of Military Deception** Hy Rothstein, Barton Whaley, 2013-09-01 It is said that deception among people in a civilized society is something to be loathed even though it seems to be part of human nature; but deception in war is a virtue. Properly designed and executed, stratagems reduce the horrific costs of war. This book is a comprehensive collection of classic articles on deception, hand-picked and expertly introduced by well-known experts on military deception. The purpose of this book is to set in motion a renaissance for using deception as an instrument of statecraft. The various sections are designed to cumulatively provide sufficient breadth and depth on the subject to satisfy both the novice as well as the expert. Packed with expert commentary, interesting background information, and original readings, this book provides the reader with sufficient knowledge to pursue General Eisenhower's vision for the proper role of deception in support of the national interest.

computer science in the military: Military Career Guide , 1989

computer science in the military: The Closed World Paul N. Edwards, 1996 The Closed World offers a radically new alternative to the canonical histories of computers and cognitive science. Arguing that we can make sense of computers as tools only when we simultaneously grasp their roles as metaphors and political icons, Paul Edwards shows how Cold War social and cultural contexts shaped emerging computer technology--and were transformed, in turn, by information machines. The Closed World explores three apparently disparate histories--the history of American global power, the history of computing machines, and the history of subjectivity in science and culture--through the lens of the American political imagination. In the process, it reveals intimate links between the military projects of the Cold War, the evolution of digital computers, and the origins of cybernetics, cognitive psychology, and artificial intelligence. Edwards begins by describing the emergence of a closed-world discourse of global surveillance and control through high-technology military power. The Cold War political goal of containment led to the SAGE continental air defense system, Rand Corporation studies of nuclear strategy, and the advanced technologies of the Vietnam War. These and other centralized, computerized military command and control projects--for containing world-scale conflicts--helped closed-world discourse dominate Cold War political decisions. Their apotheosis was the Reagan-era plan for a Star Wars space-based ballistic missile defense. Edwards then shows how these military projects helped computers become axial metaphors in psychological theory. Analyzing the Macy Conferences on cybernetics, the Harvard Psycho-Acoustic Laboratory, and the early history of artificial intelligence, he describes the formation of a cyborg discourse. By constructing both human minds and artificial intelligences as information machines, cyborg discourse assisted in integrating people into the hyper-complex technological systems of the closed world. Finally, Edwards explores the cyborg as political identity in science fiction--from the disembodied, panoptic AI of 2001: A Space Odyssey, to the mechanical robots of Star Wars and the engineered biological androids of Blade Runner--where Information Age culture and subjectivity were both reflected and constructed. Inside Technology series

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computer science in the military: Geography in America at the Dawn of the 21st Century Gary L. Gaile, Cort J. Willmott, 2005 Geography in America at the Dawn of the 21st Century surveys American geographers' current research in their specialty areas and tracks trends and innovations in the many subfields of geography. As such, it is both a 'state of the discipline' assessment and a topical reference. It includes an introduction by the editors and 47 chapters, each on a specific specialty. The authors of each chapter were chosen by their specialty group of the American Association of Geographers (AAG). Based on a process of review and revision, the chapters in this volume have become truly representative of the recent scholarship of American geographers. While it focuses on work since 1990, it additionally includes related prior work and work by non-American geographers. The initial Geography in America was published in 1989 and has become a benchmark reference of American geographical research during the 1980s. This latest volume is completely new and features a preface written by the eminent geographer, Gilbert White.

**computer science in the military: Military Construction Appropriations for 1987** United States. Congress. House. Committee on Appropriations. Subcommittee on Military Construction Appropriations, 1986

computer science in the military: Army of None: Autonomous Weapons and the Future of War Paul Scharre, 2018-04-24 Winner of the 2019 William E. Colby Award The book I had been waiting for. I can't recommend it highly enough. —Bill Gates The era of autonomous weapons has arrived. Today around the globe, at least thirty nations have weapons that can search for and destroy enemy targets all on their own. Paul Scharre, a leading expert in next-generation warfare, describes these and other high tech weapons systems—from Israel's Harpy drone to the American submarine-hunting robot ship Sea Hunter—and examines the legal and ethical issues surrounding their use. "A smart primer to what's to come in warfare" (Bruce Schneier), Army of None engages military history, global policy, and cutting-edge science to explore the implications of giving weapons the freedom to make life and death decisions. A former soldier himself, Scharre argues that we must embrace technology where it can make war more precise and humane, but when the choice is life or death, there is no replacement for the human heart.

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Ninety-seventh Congress, first session United States. Congress. House. Committee on Armed Services, 1981

**computer science in the military: Influence of funding on advances in librarianship** Danuta A. Nitecki, Eileen G. Abels, 2008-12-05 Addresses the influence of research funding on advances in libraries and librarianship from two perspectives: funding agents and specific initiatives.

**computer science in the military:** <u>Military Applications of Data Analytics</u> Kevin Huggins, 2018-10-09 Military organizations around the world are normally huge producers and consumers of data. Accordingly, they stand to gain from the many benefits associated with data analytics. However, for leaders in defense organizations—either government or industry—accessible use cases are not always available. This book presents a diverse collection of cases that explore the realm of possibilities in military data analytics. These use cases explore such topics as: Context for maritime situation awareness Data analytics for electric power and energy applications Environmental data analytics in military operations Data analytics and training effectiveness evaluation Harnessing single board computers for military data analytics Analytics for military training in virtual reality environments A chapter on using single board computers explores their application in a variety of domains, including wireless sensor networks, unmanned vehicles, and cluster computing. The investigation into a process for extracting and codifying expert knowledge provides a practical and useful model for soldiers that can support diagnostics, decision making, analysis of alternatives, and myriad other analytical processes. Data analytics is seen as having a role in military learning, and a chapter in the book describes the ongoing work with the United States Army Research Laboratory to apply data analytics techniques to the design of courses, evaluation of individual and group performances, and the ability to tailor the learning experience to achieve optimal learning outcomes in a minimum amount of time. Another chapter discusses how virtual reality and analytics are transforming training of military personnel. Virtual reality and analytics are also transforming monitoring, decision making, readiness, and operations. Military Applications of Data Analytics brings together a collection of technical and application-oriented use cases. It enables decision makers and technologists to make connections between data analytics and such fields as virtual reality and cognitive science that are driving military organizations around the world forward.

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**computer science in the military: Computers and Languages** A. Nijholt, 2014-06-28 A global introduction to language technology and the areas of computer science where language technology plays a role. Surveyed in this volume are issues related to the parsing problem in the fields of natural languages, programming languages, and formal languages. Throughout the book attention is paid to the social forces which influenced the development of the various topics. Also illustrated are the development of the theory of language analysis, its role in compiler construction, and its role in computer applications with a natural language interface between men and machine. Parts of the material in this book have been used in courses on computational linguistics, computers and society, and formal approaches to languages.

**computer science in the military:** <u>Coding Careers in the Military</u> Kate Shoup, 2019-07-15 The military relies on computer systems for all sorts of tasks, including communication, data analysis, geospatial analysis, decision-making, weapons control, simulation, testing, and administration. Many of these systems are coded by enlisted members of the military or by outside contractors hired by the military. This cool volume introduces readers to the types of coding jobs available in the military today and in the future, and explores the types of technologies that military coders employ. Using vivid photographs, primary examples, and professional advice, it provides an outlet for budding coders in the military field and ensures they are prepared to tackle the future of the coding industry.

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**computer science in the military:** *Transforming Computer Technology* Arthur L. Norberg, Judy E. O'Neill, 2000-02-01 Winner of the Association of American Publishers Professional and Scholarly Publishing Award for Computer Science Over the course of several decades, the Pentagon's Information Processing Techniques Office (IPTO) helped transform computing from a cumbersome enterprise based on batch processing to the instantly interactive, graphically rich, highly intelligent computing of today. With the purpose of improving command and control systems for the military, IPTO researchers strengthened time-sharing, laid the groundwork for graphics and parallel processing, contributed to the study of artificial intelligence, and developed the wide-area network that came to be known as the Internet. Transforming Computer Technology examines these and other developments at the Defense Department's Advanced Research Projects Agency in its heyday between 1962 and 1986. The authors show how Pentagon programs affected significant developments in both computer science and engineering. They analyze the management of the office, the origins and growth of important IPTO programs, and the interaction of the staff with the R & D community. They pay special attention to IPTO's role in executing research at the leading edge of computing and networking and in working with the military to transfer that research into practical use. And they show how, by the 1990s, the research results had been assimilated into systems both for the military and for civilian society.

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**computer science in the military: The Art of Military Innovation** Edward N. Luttwak, Eitan Shamir, 2023 Why is Israel's relatively small and low-budget military also the world's most innovative, technologically and logistically? Edward Luttwak and Eitan Shamir look to the IDF's unique structure: integrating army, air force, and navy in one service, under an officer class constantly refreshed by short tenures, the IDF is built for agility and change.

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