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Selective Guide to Literature on Computer Engineering Academic Press
The report consists of a KWIC index and an annotated bibliography by author containing 570 items.
Encyclopedia of Computer Science and Engineering Springer
Since its first volume in 1960, Advances in Computers has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of sugnificant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science
Computer Science Handbook, Second Edition Springer Science & Business Media
13th International Conference on Applied Computer Science (ACS '13)
2nd International Conference on Digital Services, Internet and Applications (DSIA '13)
Computer Science and Engineering—Theory and Applications McGraw-Hill Companies
Computers are increasingly the enabling devices of the information revolution, and computing is becoming ubiquitous in every corner of society, from manufacturing to telecommunications to pharmaceuticals to entertainment. Even more importantly, the face of computing is changing rapidly, as even traditional rivals such as IBM and Apple Computer begin to cooperate and new modes of computing are developed. Computing the Future presents a timely assessment of academic computer science and engineering (CS&E), examining what should be done to ensure continuing progress in making discoveries that will carry computing into the

twenty-first century. Most importantly, it advocates a broader research and educational agenda that builds on the field's impressive accomplishments. The volume outlines a framework of priorities for CS&E, along with detailed recommendations for education, funding, and leadership. A core research agenda is outlined for these areas: processors and multiple-processor systems, data communications and networking, software engineering, information storage and retrieval, reliability, and user interfaces. This highly readable volume examines: Computer science and engineering as a discipline-how computer scientists and engineers are pushing back the frontiers of their field. How CS&E must change to meet the challenges of the future. The influence of strategic investment by federal agencies in CS&E research. Recent structural changes that affect the interaction of academic CS&E and the business environment. Specific examples of interdisciplinary and applications research in four areas: earth sciences and the environment, computational biology, commercial computing, and the long-term goal of a national electronic library. The volume provides a detailed look at undergraduate CS&E education, highlighting the limitations of four-year programs, and discusses the emerging importance of a master's degree in CS&E and the prospects for broadening the scope of the Ph.D. It also includes a brief look at continuing education.
Computing Handbook National Academies Press
Nanotechnology refers to the creation of useful materials, devices and systems via the manipulation of matter on a miniscule scale; a nanometer being a billionth of a meter. Nanotechnology is being applied to almost every field imaginable, including electronics, magnetics, optics, information technology, materials development and biomedicine. The 190 selected peer-reviewed papers presented here are grouped into: Chapter 1: Nanotechnology and Industrial Application, Chapter 2: Computer Science and Engineering, Chapter 3: Communications and Management, Chapter 4: Control and Automation. This is an excellent introduction to the field for those interested in the exploitation of nanotechnology. Issues in Computer Engineering: 2011 Edition ScholarlyEditions
When you think about how far and fast computer science has progressed in recent years, it's not hard to conclude that a seven-year old handbook may fall a little short of the kind of reference today's computer scientists, software engineers, and IT professionals need. With a broadened scope, more emphasis on applied computing, and more than 70 chapters either new or significantly revised, the Computer Science Handbook, Second Edition is exactly the kind of reference you need. This rich collection of theory and practice fully characterizes the current state of the field and conveys the modern spirit, accomplishments, and direction of computer science. Highlights of the Second Edition: Coverage that reaches across all 11 subject areas of the discipline as defined in Computing Curricula 2001, now the standard taxonomy More than 70 chapters revised or replaced Emphasis on a more practical/applied approach to IT topics such as information management, net-centric computing, and human computer interaction More than 150 contributing authors--all recognized experts in their respective specialties New chapters on: cryptography computational chemistry computational astrophysics human-centered software development cognitive modeling transaction processing data compression scripting languages event-driven programming software architecture Computational Models, Software Engineering, and Advanced Technologies in Air Transportation: Next Generation Applications
SAGE Publications
These proceedings focus on various aspects of computer science and its applications, thus providing an opportunity for academic and industry professionals to discuss the latest issues and progress in this and related areas. The book includes theory and applications alike.
Daily Graphic Springer Science & Business Media
Published by the American Geophysical Union as part of the Special Publications Series. Opening Space Research: Dreams, Technology, and Scientific Discovery is George Ludwig's account of the early development of space-based electromagnetic physics, with a focus on the first U.S. space launches and the discovery of the Van Allen radiation belts. Narrated by the person who developed many of the instruments for the early Explorer spacecraft during the 1950s and participated directly in the scientific research, it draws heavily upon the author's voluminous collection of laboratory notes and other papers, upon the Van Allen archive, and upon a wide array of other sources. This book presents very detailed discussions of historic events in a highly readable (semitechnical), first-person form. More than that, though, Opening Space Research brings to the forefront the entire team of scientists who made these accomplishments possible, providing an extensive index of names to enhance and complete the historical record. Authoritative and unique, this book will be of interest to space scientists, science historians, and anyone interested in space history and the first U.S. space launches.
Computer Assisted Instruction Springer

Selected peer-reviewed full text papers from the International Conference on Materials, Computer Engineering and Education Technology (MCEET 2020)
Selected, peer-reviewed papers from the International Conference on Materials, Computer Engineering and Education Technology (MCEET 2020), December 19-20, 2020, Sanya, China.
Recent Advances in Applied Computer Science and Digital Services Springer
This book presents a collection of research findings and proposals on computer science and computer engineering, introducing readers to essential concepts, theories, and applications. It also shares perspectives on how cutting-edge and established methodologies and techniques can be used to obtain new and interesting results. Each chapter focuses on a specific aspect of computer science or computer engineering, such as: software engineering, complex systems, computational intelligence, embedded systems, and systems engineering. As such, the book will bring students and professionals alike up to date on key advances in these areas.
Computer Engineering CRC Press
This two-volume set LNICST 280-281 constitutes the post-conference proceedings of the 10th EAI International Conference on Wireless and Satellite Services, WiSATS 2019, held in Harbin, China, in January 2019. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. The 137 full papers were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on machine learning for satellite-terrestrial networks, human-machine interactive sensing, monitoring, and communications, integrated space and onboard networks, intelligent signal processing, wireless communications and networks, vehicular communications and networks, intelligent 5G communication and digital image processing technology, security, reliability and resilience in internet of things, advances in communications and computing for internet of things.
Computer Engineering: Concepts, Methodologies, Tools and Applications Trans Tech Publications Ltd
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.
Nanotechnology and Computer Engineering Nova Kroszka Books
Written for computer and electronics professionals in both industry and academia, the book covers computer hardware, systems, and applications, with topics ranging from computer arithmetic and digital logic to computer graphics, parallel computing systems, and VLSI system design.
Shape Interrogation for Computer Aided Design and Manufacturing Chapman and Hall/CRC
"This reference is a broad, multi-volume collection of the best recent works published under the umbrella of computer engineering, including perspectives on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field"--Provided by publisher.

The information age has grown out of the work of experimental computer science, which is dedicated to the development of new hardware, software, graphics, interfaces, and other computer system technologies. While it is important to society in this larger sense, experimental computer science has found an awkward fit in university environments. This volume examines what is special about experimental computer science and what can be done to achieve a better fit for its practitioners in the academic context.