

COMPUTER ENGINEERING

SCOPE

Here are entered works on the design of computer hardware and circuitry.

Computer engineering is defined as the discipline that embodies the science and technology of design, construction, implementation, and maintenance of software and hardware components of modern computing systems and computer-controlled equipment. Computer engineering has traditionally been viewed as a combination of both computer science (CS) and electrical engineering (EE). It has evolved over the past three decades as a separate, although intimately related, discipline. Computer engineering is solidly grounded in the theories and principles of computing, mathematics, science, and engineering and it applies these theories and principles to solve technical problems through the design of computing hardware, software, networks, and processes. [Source: ccecc.acm.org] Association for Computing Machinery



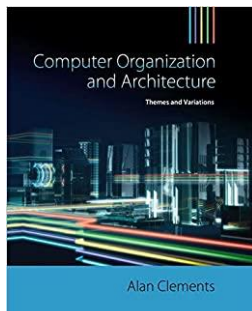
Computer organization and design: the hardware/software interface (2017)

Patterson, David A.

CO QA76.9.C6 P38 2017

Located in Fr Jose T Bacatan SJ Library – Circulation Section

The new ARM Edition of Computer Organization and Design features a subset of the ARMv8-A architecture, which is used to present the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies, and I/O. With the post-PC era now upon us, Computer Organization and Design moves forward to explore this generational change with examples, exercises, and material highlighting the emergence of mobile computing and the Cloud. Updated content featuring tablet computers, Cloud infrastructure, and the ARM (mobile computing devices) and x86 (cloud computing) architectures is included.



Computer organization and architecture: themes and variations (2014)

Clements, Alan

CO QA76.9.C643 C54 2014

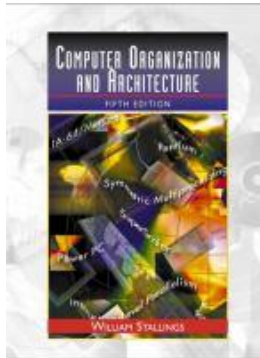
Located in Fr Jose T Bacatan SJ Library – Circulation Section

This book tresses the structure of the complete system (CPU, memory, buses and peripherals) and reinforces that core content with an emphasis on divergent examples. This approach to computer architecture is an effective arrangement that provides sufficient detail at the logic and organizational levels appropriate for EE/ECE departments as well as for Computer Science readers.

Search library resources at: <http://210.213.146.180:8080/#section=home>

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Computer organization and architecture: designing for performance (2000)

Stallings, William

CO QA76.9 S72 2000

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This book provides comprehensive and completely up-to-date coverage of computer organization and architecture. This book covers the leading-edge areas of superscalar design, IA-64 design features and parallel processor organization trends. It meets students' needs by addressing both the fundamental principles as well as the critical role of performance in driving computer design. This book also includes an unparalleled degree of instructor support, supplements and on-line resources.



The essentials of computer organization and architecture (2019)

NULL, Linda.

CO QA76.9.C6 N85 2019

Located in Fr Jose T Bacatan SJ Library – Circulation Section

A comprehensive enough to address all necessary organization and architecture topics, but concise enough to be appropriate for a single-term course. Its focus on real-world examples and practical applications encourages students to develop a “big-picture” understanding of how essential organization and architecture concepts are applied in the computing world. In addition to direct correlation with the ACM/IEEE guidelines for computer organization and architecture, the text exposes readers to the inner workings of a modern digital computer through an integrated presentation of fundamental concepts and principles.



Digital logic design and computer organization: with computer architecture for security (2015)

Faroughi, Nikrouz

CO QA76.9.C643 F37 2015

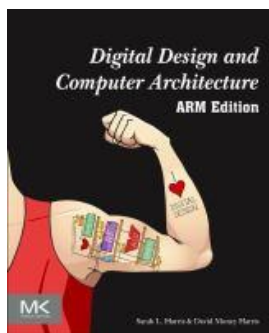
Located in Fr Jose T Bacatan SJ Library – Circulation Section

A thorough, single-volume reference to computer organization/architecture and a solid introduction to computer security concepts related to computer architecture

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Digital design and computer architecture (2016)

Harris, Sarah L., David Money Harris

CO TK7868.D5 H37 2016

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works.



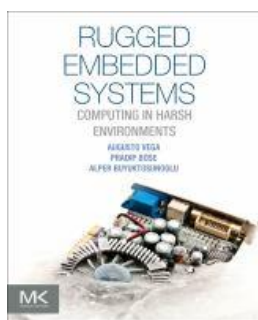
Cyber security (2018)

3G E-learning LLC, USA.

CO TK 5105.59 C93 2018

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Provides an easy insight into the essentials of Cybersecurity, even if you have a non-technical background. Discusses cyber security and cyber policy in an effort to improve the use and acceptance of security services. Looks at the challenges of cyberspace in an interdependent world and at the need for new, cooperative modes of governance to build cyber security.



Rugged embedded systems: computing in harsh environments (2017)

Vega, Augusto, Pradip Bose, Alper Buyuktosunoglu.

CO TK7895.E42 V44 2017

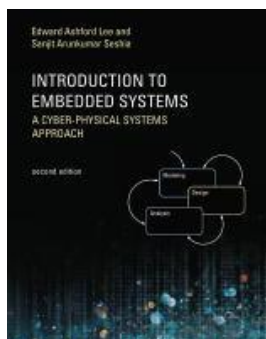
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Rugged Embedded Systems: Computing in Harsh Environments describes how to design reliable embedded systems for harsh environments, including architectural approaches, cross-stack hardware/software techniques, and emerging challenges and opportunities. A harsh environment presents inherent characteristics, such as extreme temperature and radiation levels, very low power and energy budgets, strict fault tolerance and security constraints, etc. that challenge the computer system in its design and operation. This book also incorporates use cases in the domains of unmanned vehicles (advanced cars and micro aerial robots) and space exploration as examples of computing designs for harsh environments.

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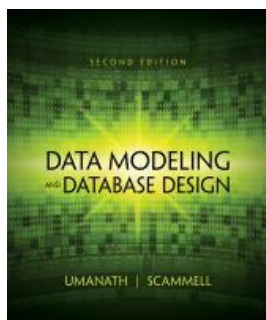
Introduction to embedded systems: a cyber-physical systems approach (2017)

Lee, Edward Ashford, Sanjit Arunkumar Seshia

CO TK7895.E42 L445 2017

Located in Fr Jose T Bacatan SJ Library – Circulation Section

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes.



Data modeling and database design (2015)

Umanath, Narayan S., Richard W. Scamell

CO QA76.9.D26 U436 2015

Located in Fr Jose T Bacatan SJ Library – Circulation Section

DATA MODELING AND DATABASE DESIGN presents a conceptually complete coverage of indispensable topics that each MIS student should learn if that student takes only one database course. Database design and data modeling encompass the minimal set of topics addressing the core competency of knowledge students should acquire in the database area. The text, rich examples, and figures work together to cover material with a depth and precision that is not available in more introductory database books.



Intel microprocessors (2014)

Brey, Barry B.

CO QA76.8 B73 2014

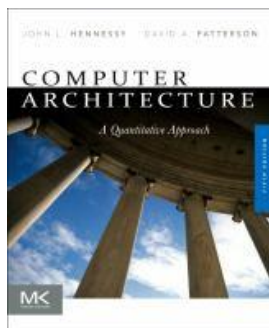
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Keeping students on the forefront of technology, this text offers a practical reference to all programming and interfacing aspects of the popular Intel microprocessor family.

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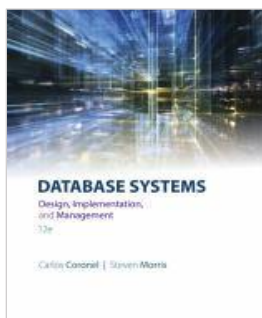
Computer architecture: a quantitative approach (2013)

Hennessy, John L.

CO QA76.9.A73 H46 2013

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Explores the ways that software and technology in the cloud are accessed by digital media, such as cell phones, computers, tablets, and other mobile devices. The book, which became a part of Intel's 2012 recommended reading list for developers, covers the revolution of mobile computing. It also highlights the two most important factors in architecture today: parallelism and memory hierarchy.



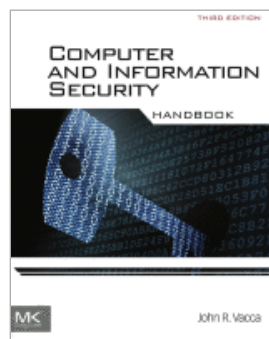
Database systems: design, implementation, and management (2017)

Coronel, Carlos

CO QA76.9.D3 R62 2017

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Gain a solid foundation in database design and implementation with the practical and easy-to-understand approach in DATABASE SYSTEMS: DESIGN, IMPLEMENTATION, AND MANAGEMENT, 12E. Filled with diagrams, illustrations, and tables, this market-leading text provides in-depth coverage of database design. You learn the key to successful database implementation: proper design of databases to fit within a larger strategic view of the data environment. Renowned for its clear, straightforward writing style, this text provides an outstanding balance of theory and practice. You gain the hands-on skills to make you attractive to employers. Updates include the latest coverage of cloud data services and a new chapter on Big Data Analytics and NoSQL, including related Hadoop technologies. In addition, new review questions, problem sets, and cases offer multiple opportunities to test your understanding and develop useful design skills.



Computer and information security handbook (2016)

Vacca, John R. (editor)

CO QA76.9.A25 C627 2017

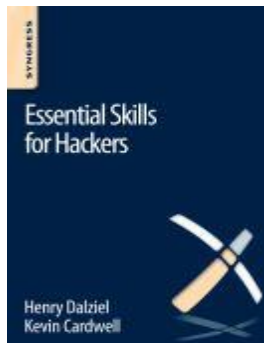
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Computer and Information Security Handbook, Third Edition, provides the most current and complete reference on computer security available in one volume. The book offers deep coverage of an extremely wide range of issues in computer and cybersecurity theory, applications, and best practices, offering the latest insights into established and emerging technologies and advancements.

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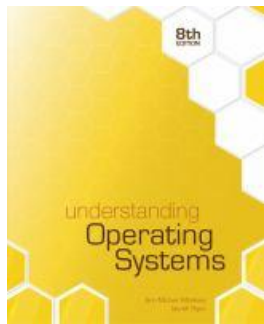
Essential skills for hackers (2016)

Cardwell, Kevin

CO QA76.9.A25 C37 2016

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The book will mainly about two things: TCP/IP 101, and Protocol Analysis. The better the hacker, the more we will be able to master TCP/IP. Once the reader understands what TCP/IP is, what it looks like, the book will go into Protocol Analysis and how analyzing the protocol or, in a more general sense, looking at packets on the wire, we will be able to determine what exactly is taking place on a network. By doing this, readers can identify when something on the network doesn't match what it should and, more importantly, can create any type of sequence of events or packets that they want on the network and see how the defenses or the machines that we send them to react.



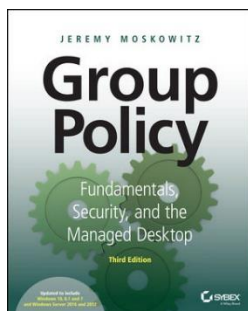
Understanding operating systems (2018)

McHoes, Ann McIver, Ida M. Flynn

CO QA76.76.O63 F59 2018

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Discover a clear, straightforward explanation of both current operating system theory and today's practices within UNDERSTANDING OPERATING SYSTEMS, 8E. This leading book's proven approach begins with a valuable discussion of fundamentals before introducing specific operating systems. Fully updated, timely content offers an expanded analysis of how modern innovations, such as multi-core processing and wireless technologies, have impacted today's operating systems. Revised Research Topics within this edition's practical exercises encourage you to research emerging and influential topics on your own. In addition, updates throughout the final four chapters now highlight information on the most current versions of UNIX (including the latest Macintosh OS), Linux, Windows, and Android to equip you with the contemporary knowledge and skills you need to working most effectively with today's systems.



Group policy: fundamentals, security, and the managed desktop (2015)

Moskowitz, Jeremy

CO QA76.76.O63 M67 2015

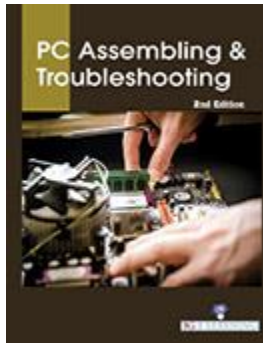
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Group Policy, Fundamentals, Security, and the Managed Desktop, 3rd Edition helps you streamline Windows and Windows Server management using the latest Group Policy tools and techniques.

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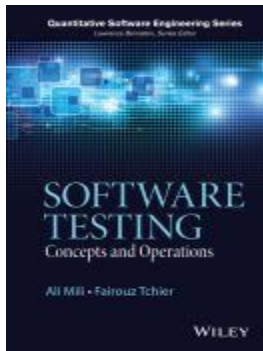
PC assembling & troubleshooting (2018)

3G E-learning LLC

CO QA76.76 .P47 2018

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This edition examines the basic components of computer hardware systems, as well as how to upgrade and troubleshoot computers. Provides an introduction to PC architecture and basic troubleshooting skills. Also, an understanding of the technical jargon is conveyed by this book. Special coverage of laptops, printers and scanners makes this book highly modernized.



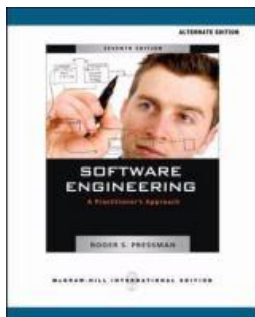
Software testing: concepts and operations (2015)

Mili, Ali, Fairouz Tchier

CO QA 76.76.T48 M56 2015

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Explores and identifies the main issues, concepts, principles and evolution of software testing, including software quality engineering and testing concepts, test data generation, test deployment analysis, and software test management. This book examines the principles, concepts, and processes that are fundamental to the software testing function. Part I introduces software testing in the broader context of software engineering and explores the qualities that testing aims to achieve or ascertain, as well as the lifecycle of software testing. Part II covers mathematical foundations of software testing, which include software specification, program correctness and verification, concepts of software dependability, and a software testing taxonomy. Part III discusses test data generation, specifically, functional criteria and structural criteria. Test oracle design, test driver design, and test outcome analysis is covered in Part IV. Finally, Part V surveys managerial aspects of software testing, including software metrics, software testing tools, and software product line testing.



Software engineering: a practitioner's approach (2015)

Pressman, Roger S.

CO QA76.758 .P73 2015

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Focuses on used software engineering methods and can de-emphasize or completely eliminate discussion of secondary methods, tools and techniques.

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Object-oriented and classical software engineering (2011)

Schach, Stephen R.

CO QA76.758 S32 2011

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Integrating case studies to show the object oriented approach to software engineering, this title presents an introduction to software engineering fundamentals, covering both traditional and object-oriented techniques.



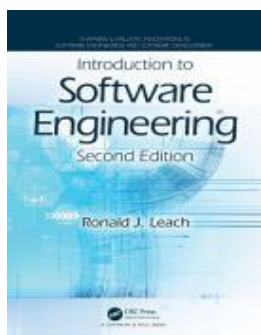
Software development (2018)

3G E-learning LLC.

CO QA76.75.D47 S64 2018

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Explains what software development is and introduces various software development models, including waterfall and agile development. Provides information on successful software development, covering such topics as customer requirements, task estimates, and principles of good design, dealing with source code, system testing, and handling bugs.



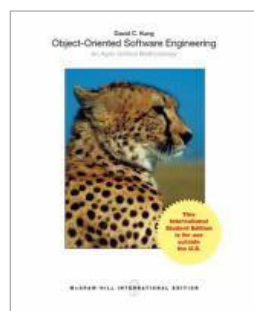
Introduction to software engineering (2015)

Leach, Ronald J.

CO QA76.758 .L34 2015

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Equips students with the fundamentals to prepare them for satisfying careers as software engineers regardless of future changes in the field, even if the changes are unpredictable or disruptive in nature. Retaining the same organization as its predecessor, this second edition adds considerable material on open source and agile development models.



Object-oriented software engineering: an agile unified methodology (2014)

Kung, David C.

CO QA76.758 .K86 2014

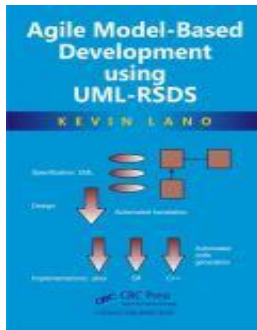
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Presents a step-by-step methodology that integrates modeling and design, UML, patterns, test-driven development, quality assurance, configuration management, and agile principles throughout the life cycle.

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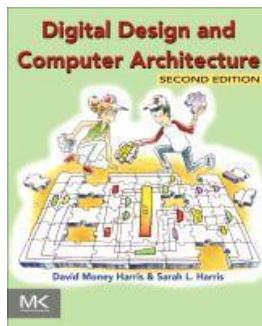
Agile model-based development using UML-RSDS (2017)

Lano, Kevin.

CO QA76.76.D47 L3836 2017

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This book describes the concepts and application of model-based development (MBD), model transformations, and Agile MBD to a wide range of software systems. It covers systems requirements engineering, system specification and design, verification, reuse, and system composition in the context of Agile MBD. Examples of applications in finance, system migration, internet systems and software refactoring are given. An established open-source MBD technology, UML-RSDS, is used throughout to illustrate the concepts.



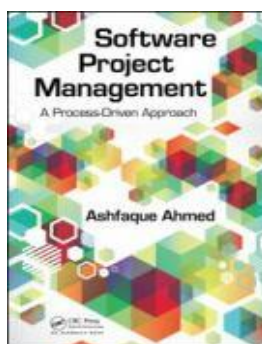
Digital design and computer architecture (2013)

Harris David Money, Sarah L. Harris.

CO TK7868.D5 H37 2013

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Digital Design and Computer Architecture, Second Edition, takes a unique and modern approach to digital design, introducing the reader to the fundamentals of digital logic and then showing step by step how to build a MIPS microprocessor in both Verilog and VHDL. This new edition combines an engaging and humorous writing style with an updated and hands-on approach to digital design. It presents new content on I/O systems in the context of general purpose processors found in a PC as well as microcontrollers found almost everywhere.



Software project management: a process-driven approach (2012)

Ahmed, Ashfaque.

CO QA76.76.D4 A36 2012

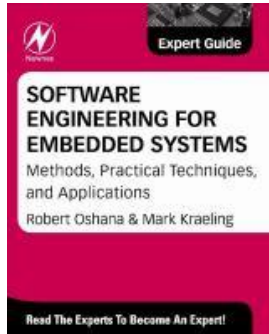
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To build reliable, industry-applicable software products, large-scale software project groups must continuously improve software engineering processes to increase product quality, facilitate cost reductions, and adhere to tight schedules. Emphasizing the critical components of successful large-scale software projects, Software Project Management: A Process-Driven Approach discusses human resources, software engineering, and technology to a level that exceeds most university-level courses on the subject

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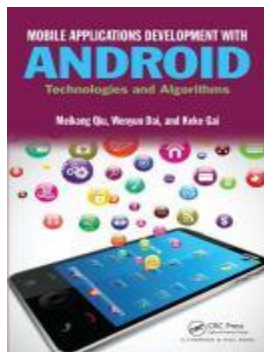
Software engineering for embedded systems: methods, practical techniques and applications (2013)

Oshana, Robert.

CO-R QA76.758 O84 2013

Located in Fr Jose T Bacatan SJ Library – Reference Section

This Expert Guide gives you the techniques and technologies in software engineering to optimally design and implement your embedded system. Written by experts with a solutions focus, this encyclopedic reference gives you an indispensable aid to tackling the day-to-day problems when using software engineering methods to develop your embedded systems.



Mobile applications development with android : technologies and algorithms (2017)

Qiu, Meikang, Wenyun Dai, Keke Gai

CO QA76.76.A65 Q58 2017

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Presents advanced techniques for mobile app development, and addresses recent developments in mobile technologies and wireless networks. The book covers advanced algorithms, embedded systems, novel mobile app architecture, and mobile cloud computing paradigms.



Perspectives on data science for software engineering (2016)

Menzies, Tim, Laurie Williams, Thomas Zimmermann (editors)

CO QA76.758 .P47 2016

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Perspectives on Data Science for Software Engineering presents the best practices of seasoned data miners in software engineering. The idea for this book was created during the 2014 conference at Dagstuhl, an invitation-only gathering of leading computer scientists who meet to identify and discuss cutting-edge informatics topics. This book offers unique insights into the wisdom of the community's leaders gathered to share hard-won lessons from the trenches. Ideas are presented in digestible chapters designed to be applicable across many domains. Topics included cover data collection, data sharing, data mining, and how to utilize these techniques in successful software projects. Newcomers to software engineering data science will learn the tips and tricks of the trade, while more experienced data scientists will benefit from war stories that show what traps to avoid.

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Beginning software engineering (2015)

Stephens, Rod

CO QA 76.758 .S74 2015

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Beginning Software Engineering demystifies the software engineering methodologies and techniques that professional developers use to design and build robust, efficient, and consistently reliable software.



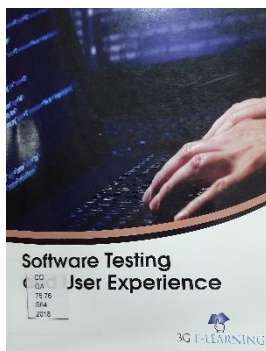
Software engineering essentials (2015)

Jollymore, Cheryl (editor)

CO QA 76.758 .S63 2015

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Topics related to the rise of software engineering and this field's distinctions from other similar fields like computer science are discussed at length here. The upcoming concepts in this field are also looked at and given an in depth answer to. This book creates a timeline of software engineering and attempts to collate existing and newer research and data that explain its theories.



Software testing and user experience (2018)

3G E-Learning

CO QA76.76 S64 2018

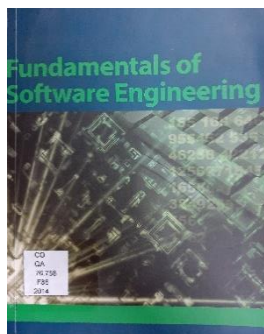
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Software Testing is vital because we all make errors. Some of those errors are unimportant, but some of them are costly or risky. In order to avoid mistakes, we need to check everything and anything we produce. All software problems can be labeled as bugs. A software bug frequently happens when the software does not do what it is intended to do. This book covers principles and practices on software testing. It provides a realistic view of testing, addressing emerging areas like extreme testing and ad hoc testing. This book focused on the advancements in the field of software testing and innovative practices that the industry is adapting.

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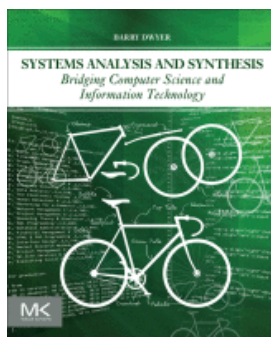


Fundamentals of software engineering (2014)

CO 76.758 F86 2014

Located in Fr Jose T Bacatan SJ Library – Circulation Section

A high quality textbook that has been tailored to contain the specialized content required for your course.



Systems Analysis and Synthesis: Bridging Computer Science and Information Technology (2016)

Dwyer, Barry

Available in ScienceDirect E-books

Systems Analysis and Synthesis: Bridging Computer Science and Information Technology presents several new graph-theoretical methods that relate system design to core computer science concepts, and enable correct systems to be synthesized from specifications. Based on material refined in the author's university courses, the book has immediate applicability for working system engineers or recent graduates who understand computer technology, but have the unfamiliar task of applying their knowledge to a real business problem.



Computer Methods in Applied Mechanics & Engineering

Full-text available from 2002 to present

Available in EBSCO and ScienceDirect E-journals

The development of computer methods for the solution of scientific and engineering problems governed by the laws of mechanics was one of the great scientific and engineering achievements of the second half of the 20th century, with a profound impact on science and technology. This is accomplished through advanced mathematical modeling and numerical solutions reflecting a combination of concepts, methods and principles that are often interdisciplinary in nature and span several areas of mechanics, mathematics, computer science and other scientific disciplines as well.

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Computer Journal

Full-text available from 2007 to present
Available in EBSCO E-Journals

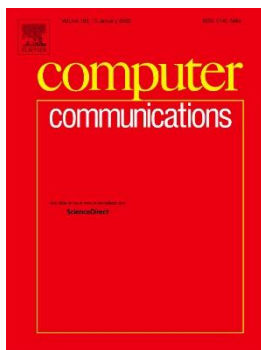
Contains practical accounts of developments & their likely impact, shorter communications & review articles.



Computer Languages, Systems & Structures

Full-text available from 2002 to 2018
Available in EBSCO and ScienceDirect E-Journals

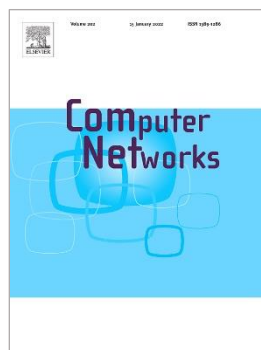
Coverage of advances in programming languages, systems, structures, and theories. Topics include syntax, parsing, compilers, complexities, computability, semantics, and automatic programming languages.



Computer Communications

Full-text available from 1978 to present
Available in ScienceDirect E-journals

Computer Communications is a peer-reviewed international journal that publishes high-quality scientific articles (both theory and practice) and survey papers covering all aspects of future computer communication networks (on all layers, except the physical layer), with a special attention to the evolution of the Internet architecture, protocols, services, and applications.



Computer Networks

Full-text available from 1999 to present
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Computer Networks is an international, archival journal providing a publication vehicle for complete coverage of all topics of interest to those involved in the computer communications networking area. The audience includes researchers, managers and operators of networks as well as designers and implementors.

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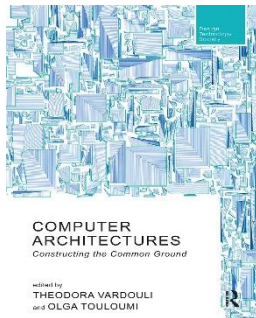


Journals of Network and Computer Applications

Full-text available from 1996 to present

Available in ScienceDirect E-journals

The Journal of Network and Computer Applications welcomes research contributions, surveys and notes in all areas relating to computer networks and applications.



Computer Architectures: Constructing the Common Ground (2020)

Vardouli, Theodora, Olga Touloumi

Available in EBSCO E-books

Computer Architectures is a collection of multidisciplinary historical works unearthing sites, concepts, and concerns that catalyzed the cross-contamination of computers and architecture in the mid-20th century. Weaving together intellectual, social, cultural, and material histories, this book paints the landscape that brought computing into the imagination, production, and management of the built environment, whilst foregrounding the impact of architecture in shaping technological development. The book is organized into sections corresponding to the classic von Neumann diagram for computer architecture: program (control unit), storage (memory), input/output and computation (arithmetic/logic unit), each acting as a quasi-material category for parsing debates among architects, engineers, mathematicians, and technologists.



Digital architecture beyond computers: fragments of a cultural history of computational design (2018)

Bottazzi, Roberto

Available in EBSCO E-books

Digital Architecture Beyond Computers' explores the deep history of digital architecture, tracing design concepts as far back as the Renaissance and connecting them with the latest software used by designers today. It develops a critical account of how the tools and techniques of digital design have emerged, and allows designers to deepen their understanding of the digital tools they use every day.

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Computer Science Review

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The review publishes research surveys and expository overviews of open problems in computer science. All articles are aimed at a general computer science audience seeking a full and expert overview of the latest developments across computer science research.



Discovering computers 2018: digital technology, data, and devices: essentials (2016)

Vermaat, Misty E. [and four others]

CO QA76.5 .D57 2016

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Comparative study on the database implementation of an OODBMS and an ORDBMS (1999)

Bello, Maureen F.

GR-FI-TS QA 76.9 .B44 1999

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Accelerator-Level Parallelism: Charging computer scientists to develop the science needed to best achieve the performance and cost goals of accelerator-level parallelism hardware and software (2021)

Hill, Mark D., Vijay Janapa Reddi

Communications of the ACM, vol. 64 Issue 12, pp. 36-38.

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Resch, Salonik, Ulya R. Karpuzcu
ACM Computing Surveys, vol. 54 Issue 7, pp. 1-35.
Available in EBSCO E-articles

Analysis of Malware Detection and Signature Generation Using a Novel Hybrid Approach (2022).

Dugyala, Raman, [and five others]
Mathematical Problems in Engineering, 1/19/2022, pp. 1-13.
Available in EBSCO E-articles

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Betim Cico, Bekim Fetaji, Marco Porta
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Microprocessors and Microsystems, December 2020, 103617
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Microprocessors: the engines of the digital age (2017)

Furber, Steve

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Agnes S. Lim | January 26, 2022

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