Reading free Cloud computing concepts technology architecture (PDF)

Cloud Computing Cloud Computing: Concepts and Technology Cloud Computing Cloud Computing Cloud Computing Understanding Infrastructure Edge Computing Serverless Computing Concepts, Technology and Architecture Pervasive Computing Any Time, Anywhere Computing Computing Concepts End-User Computing: Concepts, Methodologies, Tools, and Applications Service Computing: Concept, Method and Technology Fog Computing Social Computing: Concepts, Methodologies, Tools, and Applications Big Data Analysis for Green Computing Computing Concepts for Information Technology Service-oriented Architecture Ubiquitous and Pervasive Computing Basic Computing Concepts Human Services Computing Mobile Computing Mobile Computing Cloud Technologies Computers Basic of Computing Concepts Social Computing Computer Concepts Systems, Applications and Designs Computer Concepts Technology for Success: Computer Concepts, 2020 Succeeding with Technology Computing Concepts Computing for Ordinary Mortals Ubiquitous and Pervasive Computing Serverless Computing Concepts, Technology and Architecture Handbook of Research on Grid Technologies and Utility Computing: Concepts for Managing Large-Scale Applications Virtual Computing Using Information Technology Computer Concepts Mastering Cloud Computing Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications

Cloud Computing

2013

this book describes cloud computing as a service that is highly scalable and operates in a resilient environment the authors emphasize architectural layers and models but also business and security factors

Cloud Computing: Concepts and Technology

2021-12-07

the on demand availability of computer system resources without direct active management by the user is known as cloud computing it is usually used to refer to the data centers which are available over the internet to many users a few major types of clouds are enterprise clouds public clouds and hybrid cloud enterprise clouds also called private clouds are usually limited to a single organization while public clouds are available to many organizations a hybrid cloud is a cloud computing service which is made up of a fusion of public private and community cloud services cloud computing majorly relies on sharing of resources to achieve economies of scale and coherence cloud computing is an upcoming field of science that has undergone rapid development over the past few decades different approaches concepts and technologies related to this field have been included in this book it will serve as a reference to a broad spectrum of readers

Cloud Computing

2021-03-09

comprehensive and timely cloud computing concepts and technologies offers a thorough and detailed description of cloud computing concepts architectures and technologies along with guidance on the best ways to understand and implement them it covers the multi core architectures distributed and parallel computing models virtualization cloud developments workload and service level agreements sla in cloud workload management further resource management issues in cloud with regard to resource provisioning resource allocation resource mapping and resource adaptation ethical non ethical and security issues in cloud are followed by discussion of open challenges and future directions this book gives students a comprehensive overview of the latest technologies and guidance on cloud computing and is ideal for those studying the subject in specific modules or advanced courses it is designed in twelve chapters followed by laboratory setups and experiments each chapter has multiple choice questions with answers as well as review questions and critical thinking questions the chapters are practically focused meaning that the information will also be relevant and useful for professionals wanting an overview of the topic

Cloud Computing

2023-08-14

cloud computing concepts technology security architecture cloud computing has become an integral and foundational part of information technology the majority of digital business activity and technology innovation occurs with the involvement of contemporary cloud environments that provide highly sophisticated automated technology infrastructure and a vast range of technology resources to successfully build upon interact with or create a cloud environment requires an understanding of its common inner mechanics architectural layers models and security controls it also requires an understanding of the business and economic factors that justify the adoption and real world use of clouds and cloud based products and services in cloud computing concepts technology security architecture thomas erl one of the world's top selling it authors teams up with cloud computing expert eric barceló monroy and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts technology mechanisms and technology architectures comprehensive coverage of containerization and cybersecurity topics is also included all chapters are carefully authored from an industry centric and vendor neutral point of view in doing so the book establishes concrete academic coverage with a focus on

structure clarity and well defined building blocks for mainstream cloud computing and containerization platforms and solutions with nearly 370 figures 40 architectural models and 50 mechanisms this indispensable guide provides a comprehensive education of contemporary cloud computing containerization and cybersecurity that will never leave your side

Cloud Computing

1901

understanding infrastructure edge computing a comprehensive review of the key emerging technologies that will directly impact areas of computer technology over the next five years infrastructure edge computing is the model of data center and network infrastructure deployment which distributes a large number of physically small data centers around an area to deliver better performance and to enable new economical applications it is vital for those operating at business or technical levels to be positioned to capitalize on the changes that will occur as a result of infrastructure edge computing this book provides a thorough understanding of the growth of internet infrastructure edge computing presents an accessible accurate and expansive view of the next generation of internet infrastructure the book features illustrative examples of 5g mobile cellular networks city scale ai systems self driving cars drones industrial robots and more technologies that increase efficiency save time and money and improve safety covering state of the art topics this timely and authoritative book presents a clear and accurate survey of the key emerging technologies that will impact data centers 5g networks artificial intelligence and cyber physical systems and other areas of computer technology explores how and why internet infrastructure has evolved to where it stands today and where it needs to be in the near future covers a wide range of topics including distributed application workload operation infrastructure and applications which depend upon underlying edge infrastructure written for information technology practitioners computer technology practitioners and students understanding infrastructure edge computing is essential reading for those looking to benefit from the coming changes in computer technology

Understanding Infrastructure Edge Computing

2021-04-05

serverless computing has emerged as a transformative technology gaining prominence over traditional cloud computing it is characterized by reduced costs lower latency and the elimination of server side management overhead and is driven by the increasing adoption of containerization and microservices architectures however there is a significant lack of comprehensive resources for academic research purposes in this field serverless computing concepts technology and architecture addresses this gap and provides a comprehensive exploration of the fundamental concepts characteristics challenges applications and futuristic approaches of serverless computing this book serves as a valuable reference for doctorate and post doctorate research scholars undergraduates and postgraduates in fields such as computer science information technology electronics engineering and other related disciplines serverless computing concepts technology and architecture is poised to be a one stop reference point for those seeking to understand and harness the potential of serverless computing it will serve as a prominent guide for researchers in this field for years to come enriching their knowledge and advancing the study of serverless computing

Serverless Computing Concepts, Technology and Architecture

2024-04-04

this book introduces fundamental concepts and theories in pervasive computing as well as its key technologies and applications it explains how to design and implement pervasive middleware and real application systems covering nearly all aspects related to pervasive computing key technologies in the book include pervasive computing oriented resource management and task migration mobile pervasive transaction human computer interface and context collection oriented wireless sensor networks

Pervasive Computing

2016-01-15

the proliferation of wireless networks and small portable computing devices has led to the emergence of the mobile computing paradigm mobile and nomadic users carrying laptops or hand held computers are able to connect to the internet through publicly available wireline or wireless networks in the near future this trend can only grow as exciting new services and infrastructures delivering wireless voice and multimedia data are deployed any time anywhere computing mobile computing concepts and technology is intended for technical and non technical readers it includes substantial coverage of the technologies that are shaping mobile computing current and future portables technology is covered and explained similarly current and future wireless telecommunication networks technology is covered and reviewed by presenting commercial solutions and middleware this book will also help it professionals who are looking for mobile solutions to their enterprise computing needs finally this book surveys a vast body of recent research in the area of mobile computing the research coverage is likely to benefit researchers and students from academia as well as industry

Any Time, Anywhere Computing

1999-10-31

offering a coverage of the basics this work provides information on building a site e commerce implications of technological advances buying your first pc and maintaining a computer system this work also contains coverage of ethics security and privacy it explains the essentials for using technology in the wired world

Computing Concepts

2002

covers the important concepts methodologies technologies applications social issues and emerging trends in this field provides researchers managers and other professionals with the knowledge and tools they need to properly understand the role of end user computing in the modern organization

End-User Computing: Concepts, Methodologies, Tools, and Applications

2008-02-28

service computing is a cross disciplinary field that covers science and technology and represents a promising direction for distributed computing and software development methodologies it aims to bridge the gap between business services and it services by supporting the whole lifecycle of services innovation over the last ten years applications in industry and academic research have produced considerable progress and success service computing concept method and technology presents the concept of service computing and a proposed reference architecture for service computing research before proceeding to introduce two underlying technologies services and service oriented architecture it also presents the authors latest research findings on hot topics such as service discovery recommendation composition verification service trust dynamic configuration and big data service some new models and methods are proposed including three service discovery methods based on semantics and skyline technologies two service recommendation methods using graph mining and qos prediction two service composition methods with graph planning and one service verification method using π calculus and so on moreover this book introduces jtang an underlying platform supporting service computing which is a product of the authors last ten years of research and development systematically reviews all the research on service computing introduces state of art research works on service computing and provides a road map for future directions bridges the gap between service computing theory and practice provides guidance for both industry and academia

Service Computing: Concept, Method and Technology

2014-12-06

this authoritative text reference describes the state of the art of fog computing presenting insights from an international selection of renowned experts a particular focus is provided on development approaches architectural mechanisms and measurement metrics for building smart adaptable environments the coverage also includes important related topics such as device connectivity security and interoperability and communication methods topics and features introduces the core concepts and principles of fog computing and reviews the latest research and best practice relating to fog edge environments discusses the vision for an internet of things iot in terms of fog computing and other related distributed computing paradigms such as cloud computing presents a survey of the key issues and broader aspects of the fog paradigm as well as the factors that affect adoption of fog computing examines frameworks and methodologies for fog based architecture design improving performance and measuring quality of experience proposes tools and methodologies for analyzing large amounts of sensor data from smart city initiatives describes approaches for designing robust services management of data intensive applications context aware data analysis and vehicular networking identifies potential future research directions and technological innovations in relation to distributed computing environments such as the iot this enlightening volume offers essential perspectives for researchers of distributed computing and computer networking as well as for advanced undergraduate and graduate students pursuing interests in this area professional engineers seeking to enhance security and connectivity in their iot systems will also find this work to be a valuable reference

Fog Computing

2018-07-12

uncovers the growing and expanding phenomenon of human behavior social constructs and communication in online environments

Social Computing: Concepts, Methodologies, Tools, and Applications

2009-11-30

this book focuses on big data in business intelligence data management machine learning cloud computing and smart cities it also provides an interdisciplinary platform to present and discuss recent innovations trends and concerns in the fields of big data and analytics big data analysis for green computing concepts and applications presents the latest technologies and covers the major challenges issues and advances of big data and data analytics in green computing it explores basic as well as high level concepts it also includes the use of machine learning using big data and discusses advanced system implementation for smart cities the book is intended for business and management educators management researchers doctoral scholars university professors policymakers and higher academic research organizations

Big Data Analysis for Green Computing

2021-10-29

computing concepts for information technology explains how computers really work including how images sounds and video are represented by numbers and how chips with millions of transistors process those numbers computing concepts for information technology is suitable for people with no prior study of computer systems although it may be helpful to have experience with a high level programming language such as java or python computing concepts for information technology tells a story that begins in the 19th century and shows that the internet phones tablets and laptops that are so much a part of our lives did not spring fully formed from a silicon valley campus on the inside computers are all about numbers and the story continues with numbers and number systems it reveals the mysteries of binary numbers and explains why computers use a number system different from the one we use every day one of the reviewers of the book remarked that students of computing should know enough about the digital logic that makes computers work to believe that what s inside is not little green martians with calculators and the book provides a thorough explanation input and output data communications computer software and information security are covered at a fundamental level and provide the necessary background for further study the beginning of the 21st century is an exciting time for those who make use and study computers and computer systems and this book provides the basis for keeping up with the changes that are taking place right now

Computing Concepts for Information Technology

2023-08-03

service oriented architecture is no longer an exclusive discipline practiced only by expensive consultants with this book s help readers can plan architect and implement their own service oriented environments efficiently and cost effectively this book comes with a variety of resources including a complete glossary examples articles and current industry information

Service-oriented Architecture

2005

this publication covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life provided by publisher

Ubiquitous and Pervasive Computing

2010

makes learning to use the computer as easy as abc with user friendly content materials are presented in simple english that a beginner in computer technology can easily understand easy to follow step by step format to performing basic computer tasks helps students build a strong foundation in developmental technology detailed graphic illustrations graphics are labeled with sufficient details that allow students to quickly grasp the subject matter graphic labels contain interactive instructions to facilitate hands on practice on the computer end of chapter questions varieties of multiple choice questions true false matching and short answer questions assess students understanding of chapter materials the questions help students to master basic computer concepts and are able to identify key terms within each chapter answer key to end of chapter questions a list of shortcut keys on how to quickly perform basic computer tasks also serves as a quick reference guide for program commands glossary provides a detailed list of all key terms covered in the book complete with definitions serves as a quick reference to basic computer term and definitions

Basic Computing Concepts

2014

here is a book to assist human service professionals and students in becoming intelligent users of computing technologies in focusing on the entire spectrum of computing and its current and potential application to the human services this enlightening book examines computing as a societal phenomenon and as a tool for improving the decisions made in the process of helping clients human service professionals can move successfully into the information age with this important volume in a clear and understandable manner human services computing synthesizes available information from the fields of computer science systems analysis information management and communication within the context of the human service environment author dick schoech illustrates the theories and the particular tools that make it possible for human services workers to follow the steps within their standard decision making process investigating recording information formulating alternatives implementing preferred solutions and reflecting on results using the technology available today he also explores what computing means to clients practitioners managers and policymakers human services computing is divided into three parts that build on the premise that human service decision making should be understood before applying technology to it part i focuses on the human service environment and decision making process part ii emphasizes the technology of computing with chapters on hardware programming and languages software and data management part iii addresses the applications of computing including human service software types of computing systems the implementation and management of computing systems and future trends and issues that will have an impact on the human services this is an essential and practical volume for professionals and students in the human services today throughout the book descriptions of technology and its application are tailored for human service professionals and students with little or no systems business or computing background computing concepts and terms are defined helping the reader gradually develop the vocabulary necessary to understand and discuss this highly technical area

Human Services Computing

1990

this multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers provided by publisher

Mobile Computing

2009

this multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers provided by publisher

Mobile Computing

2009

cloud technologies contains a variety of cloud computing technologies and explores how the cloud can enhance business operations cloud technologies offers an accessible guide to cloud based systems and clearly explains how these technologies have changed the way organizations approach and implement their computing infrastructure the author includes an overview of cloud computing and addresses business related considerations such as service level agreements elasticity security audits and practical implementation issues in addition the book covers important topics such as automation infrastructure as code devops orchestration and edge computing cloud computing fundamentally changes the way organizations think about and implement it infrastructure any manager without a firm grasp of basic cloud concepts is at a huge disadvantage in the modern world written for all levels of managers working in it and other areas the book explores cost savings and enhanced capabilities as well as identifies different models for implementing cloud technologies and tackling cloud business concerns this important book demonstrates a variety of cloud computing technologies and ways the cloud can enhance business operations addresses data security concerns in cloud computing relevant to corporate data owners shows ways the cloud can save money for a business offers a companion website hosting powerpoint slides written for managers in the fields of business it and cloud computing cloud technologies describes cloud computing concepts and related strategies and operations in accessible language

Cloud Technologies

2021-04-05

computers are one of the most exciting topics in our lives today they headline almost every newspaper have dozens of magazines dedicated to them and they stock the shelves of more retailers than you could possibly shop in a lifetime get ready with long longs computers ninth edition you won t just read about computers you will jump in to how to use computers with the very first section called getting started through countless learning tools and special it ethics and issues boxes that highlight the trendiest topics in computer concepts you will encounter the realities of what computers can do today and what they may be capable of in the years to come this book also has numerous in text resources to make sure you understand the chapter information that is most important to you in your life and on the exam get set you will actively experience computers not just read about them with long longs computers ninth edition the companion site and prentice hall s explore generation it labs will afford you the most current and interactive tools available in your quest towards computer fluency myphlip prenhall com long is your source for the most current information on computer concepts and the interactive tools to reinforce your coursework internet exercises an interactive study guide and monthly technology updates are just a few of the tools that you will encounter on this site the explore generation it labs present an interactive look into the world of computer concepts the 12 labs are delivered both on the and on cd rom allowing you to access them in the classroom the dorm at home or anywhere you haveaccess to a computer and or the internet get long long s computers ninth edition and get started with computer concepts now

Computers

2001-05

essential computing concepts your gateway to the digital world embark on a journey through the core of modern technology with essential computing concepts this book serves as your key to unlocking the foundational ideas shaping our digital reality from the fundamental concept of computer to the intricacies of a complete computer system discover how hardware and software collaborate seamlessly unveil the enigmatic workings of operating systems the unsung heroes behind intuitive user interfaces navigate the online sphere with confidence using insights from your gateway to the internet uncover the mechanics of internet connectivity data exchange and digital communication explore diverse facets of the internet its applications from social media to e commerce and witness how it s revolutionized our lifestyles gain a glimpse into the world of ai tools their uses where artificial intelligence propels innovation across various domains in an age of increasing digital threats acquire crucial cybersecurity awareness arm yourself with knowledge about online risks and protective measures essential computing concepts is your compact guide to understanding the building blocks of today s technology landscape whether you re a tech enthusiast or a newcomer this book offers a concise tour of digital essentials start your journey now and unravel the worlders of the digital realm

Basic of Computing Concepts

2023-08-21

this text is part of an integrated system of instruction for the first course on computers interactive labs combine with an integration of technology to provide a pragmatic user orientation

Social Computing

2010

gain a thorough understanding of today s sometimes daunting ever changing world of technology as you learn how to apply the latest technology to your academic professional and personal life with technology for success computer concepts written by a team of best selling technology authors and based on extensive research and feedback from students like you this edition breaks each topic into brief inviting lessons that address the what why and how behind digital advancements to ensure deep understanding and application to today s real world optional online mindtap and sam skills assessment manager learning tools offer hands on and step by step training videos that cover the more difficult concepts and simulations that challenge you to solve problems in the actual world you leave this course able to read the latest technology news and understand its impact on your daily life the economy and society

Computer Concepts Systems, Applications and Designs

1997-06

prepare your students for success in their careers and personal lives through the use of technology succeeding with technology international edition teaches students how to apply technology to practical situations that they II encounter in their academic and professional lives focusing on current trends that impact the way we live succeeding with technology provides just the right amount of foundational concepts to provide a thorough understanding

Computer Concepts

1996

the i series textbooks emphasise that students learn and master applications skills by being actively engaged written with clear steps this text aims to help students accomplish tasks that lead to a finished document worksheet or database table with interactive cd

Technology for Success: Computer Concepts, 2020

2020-06-30

computing isn t only or even mostly about hardware and software it s also about the ideas behind the technology in computing for ordinary mortals computer scientist robert st amant explains this really interesting part of computing introducing basic computing concepts and strategies in a way that readers without a technical background can understand and appreciate each of the chapters illustrates ideas from a different area of computing and together they provide important insights into what drives the field as a whole st amant starts off with an overview of basic concepts as wel

Succeeding with Technology

2011

serverless computing has emerged as a transformative technology gaining prominence over traditional cloud computing it is characterized by reduced costs lower latency and the elimination of server side management overhead and is driven by the increasing adoption of containerization and microservices architectures however there is a significant lack of comprehensive resources for academic research purposes in this field serverless computing concepts technology and architecture addresses this gap and provides a comprehensive exploration of the fundamental concepts characteristics challenges applications and futuristic approaches of serverless computing this book serves as a valuable reference for doctorate and post doctorate research scholars undergraduates and postgraduates in fields such as computer science information technology electronics engineering and other related disciplines serverless computing concepts technology and architecture is poised to be a one stop reference point for those seeking to understand and harness the potential of serverless computing it will serve as a prominent guide for researchers in this field for years to come enriching their knowledge and advancing the study of serverless computing

Computing Concepts

2001-05

this book provides a compendium of terms definitions and explanations of concepts issues and trends in grid technology provided by publisher

Computing for Ordinary Mortals

2012

the evolution of modern computers began more than 50 years ago and has been driven to a large extend by rapid advances in electronic technology during that period the first computers ran one application user at a time without the benefit of operating systems or compilers the application programmers were responsible for managing all aspects of the hardware the introduction of compilers allowed programmers to express algorithms in abstract terms without being concerned with the bit level details of their implementation time sharing operating systems took computing systems one step further and allowed several users and or applications to time share the computing services of com puters with the advances of networks and software tools users and applications were able to time share the logical and physical services that are geographically dispersed across one or more networks virtual computing vc concept aims at providing ubiquitous open computing services in analogous way to the services offered by telephone and elec trical utility companies the vc environment should be dynamically setup to meet the requirements of a single user and or application the design and development of a dynamically programmable virtual comput ing environments is a challenging research problem however the recent advances in processing and network technology and software tools have successfully solved many of the obstacles facing the wide deployment of virtual computing environments as will be outlined next

Ubiquitous and Pervasive Computing

2009

using information technology 6 e covers the fundamental computing concepts that are part of the digital age including software hardware data people and procedures along with expanded coverage on security and ethics the text centers on educating today s technology consumer using themes of ethics the internet and communications to demonstrate how the changing world of technology influences our lives and the decisions we make

Serverless Computing Concepts, Technology and Architecture

2024-04-04

embark on an enlightening journey through the captivating realm of mastering cloud computing concepts techniques and applications this comprehensive book is your key to unlocking the vast potential of cloud technology explore the foundational principles of cloud computing from historical roots to cutting edge trends dive deep into cloud infrastructure security and governance navigate cloud networking architecture and storage with confidence discover strategies for cost management optimization and sustainability contemplate the ethical and sustainable dimensions of cloud technology whether you re a cloud enthusiast or an experienced professional mastering cloud computing concepts techniques and applications empowers you to reshape your understanding and become a trailblazer in the world of cloud technology don t miss this opportunity secure your copy today and embark on a journey of innovation and knowledge

Handbook of Research on Grid Technologies and Utility Computing: Concepts for Managing Large-Scale Applications

2009-05-31

as technology continues to become more sophisticated mimicking natural processes and phenomena also becomes more of a reality continued research in the field of natural computing enables an understanding of the world around us in addition to opportunities for man made computing to mirror the natural processes and systems that have existed for centuries nature inspired computing concepts methodologies tools and applications takes an interdisciplinary approach to the topic of natural computing including emerging technologies being developed for the purpose of simulating natural phenomena applications across industries and the future outlook of biologically and nature inspired technologies emphasizing critical research in a comprehensive multi volume set this publication is designed for use by it professionals researchers and graduate students studying intelligent computing

Virtual Computing

2012-12-06

Using Information Technology

2001

Computer Concepts

1996

Mastering Cloud Computing

2023-09-17

Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications

2016-07-26

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