

Distributed

Computing

PRINCIPLES and APPLICATIONS



M. L. Liu

Distributed Computing Principles And Applications

Nick Antonopoulos, Lee Gillam



Distributed Computing Principles And Applications:

Distributed Computing M. L. Liu, Mei-Ling L. Liu, 2004 Distributed Computing provides an introduction to the core concepts and principles of distributed programming techniques It takes a how to approach where students learn by doing Designed for students familiar with Java the book covers programming paradigms protocols and application program interfaces API s including RMI COBRA IDL WWW and SOAP Each chapter introduces a paradigm and or protocol and then presents the use of a DPI that illustrates the concept The presentation uses narrative code examples and diagrams designed to explain the topics in a manner that is clear and concise End of chapter exercises provide analytical as well as hands on exercises to prompt the reader to practice the concepts and the use of API s covered throughout the text Using this text students will understand and be able to execute basic distributed programming techniques used to create network services and network applications including Internet applications *Distributed Computing*, 2004 **Distributed Computing:**

Principles And Applications Liu, 2004-09 *Cloud Computing* Nikos Antonopoulos, Lee Gillam, 2010-07-16 Cloud computing continues to emerge as a subject of substantial industrial and academic interest Although the meaning and scope of cloud computing continues to be debated the current notion of clouds blurs the distinctions between grid services web services and data centers among other areas Clouds also bring considerations of lowering the cost for relatively bursty applications to the fore Cloud Computing Principles Systems and Applications is an essential reference guide that provides thorough and timely examination of the services interfaces and types of applications that can be executed on cloud based systems The book identifies and highlights state of the art techniques and methods for designing cloud systems presents mechanisms and schemes for linking clouds to economic activities and offers balanced coverage of all related technologies that collectively contribute towards the realization of cloud computing With an emphasis on the conceptual and systemic links between cloud computing and other distributed computing approaches this text also addresses the practical importance of efficiency scalability robustness and security as the four cornerstones of quality of service Topics and features explores the relationship of cloud computing to other distributed computing paradigms namely peer to peer grids high performance computing and web services presents the principles techniques protocols and algorithms that can be adapted from other distributed computing paradigms to the development of successful clouds includes a Foreword by Professor Mark Baker of the University of Reading UK examines current cloud practical applications and highlights early deployment experiences elaborates the economic schemes needed for clouds to become viable business models This book will serve as a comprehensive reference for researchers and students engaged in cloud computing Professional system architects technical managers and IT consultants will also find this unique text a practical guide to the application and delivery of commercial cloud services Prof Nick Antonopoulos is Head of the School of Computing University of Derby UK Dr Lee Gillam is a Lecturer in the Department of Computing at the University of Surrey UK *Parallel and Distributed Computing,*

Applications and Technologies Hiroyuki Takizawa, Hong Shen, Toshihiro Hanawa, Jong Hyuk Park, Hui Tian, Ryusuke Egawa, 2023-04-07 This book constitutes the proceedings of the 23rd International Conference on Parallel and Distributed Computing Applications and Technologies PDCAT 2022 which took place in Sendai Japan during December 7-9 2022 The 24 full papers and 16 short papers included in this volume were carefully reviewed and selected from 95 submissions The papers are categorized into the following topical sub headings Heterogeneous System 1 HPC Embedded systems Blockchain Deep Learning Quantum Computing Best Papers Heterogeneous System 2 Equivalence Checking Interconnect Optimization 1 Optimization 2 Privacy and Workflow **Reliable Distributed Systems** Amy Elser, 2005-03-25 Explains fault tolerance in clear terms with concrete examples drawn from real world settings Highly practical focus aimed at building mission critical networked applications that remain secure Energy-Efficient Distributed Computing Systems Albert Y. Zomaya, Young Choon Lee, 2012-07-26 The energy consumption issue in distributed computing systems raises various monetary environmental and system performance concerns Electricity consumption in the US doubled from 2000 to 2005 From a financial and environmental standpoint reducing the consumption of electricity is important yet these reforms must not lead to performance degradation of the computing systems These contradicting constraints create a suite of complex problems that need to be resolved in order to lead to greener distributed computing systems This book brings together a group of outstanding researchers that investigate the different facets of green and energy efficient distributed computing Key features One of the first books of its kind Features latest research findings on emerging topics by well known scientists Valuable research for grad students postdocs and researchers Research will greatly feed into other technologies and application domains Cloud Computing Nick Antonopoulos, Lee Gillam, 2017-06-02 This practically focused reference presents a comprehensive overview of the state of the art in Cloud Computing and examines the potential for future Cloud and Cloud related technologies to address specific industrial and research challenges This new edition explores both established and emergent principles techniques protocols and algorithms involved with the design development and management of Cloud based systems The text reviews a range of applications and methods for linking Clouds undertaking data management and scientific data analysis and addressing requirements both of data analysis and of management of large scale and complex systems This new edition also extends into the emergent next generation of mobile telecommunications relating network function virtualization and mobile edge Cloud Computing as supports Smart Grids and Smart Cities As with the first edition emphasis is placed on the four quality of service cornerstones of efficiency scalability robustness and security *Couchbase Essentials* Richard Johnson, 2025-06-18 Couchbase Essentials Couchbase Essentials offers an authoritative and comprehensive guide for architects developers and operations professionals seeking to master the full breadth of Couchbase technology The book meticulously explores the distributed foundations of Couchbase unraveling its unique architecture core principles and modular services that enable limitless scalability and high availability From understanding data distribution

sharding and replication including robust cross data center synchronization to in depth security and cluster management readers gain an inside look at the best practices for building and maintaining enterprise grade distributed systems Spanning advanced data modeling index optimization and powerful querying with N1QL the book provides practical strategies for designing flexible high performance JSON data stores that meet demanding real world workloads Readers are guided through topics such as schema evolution relationship management full text search and analytics ensuring the ability to deliver both strong transactional integrity and responsive analytical insights Integration techniques SDK usage across multiple programming environments and patterns for seamless real time and offline data synchronization in mobile and edge computing scenarios highlight how Couchbase empowers organizations across a diverse technology landscape Beyond foundational and operational excellence Couchbase Essentials delves into critical performance engineering automation and security best practices required for modern data platforms With expert coverage of deployment options spanning bare metal to hybrid cloud and containers alongside advanced topics like observability backup and disaster recovery compliance and multi tenancy this book equips readers to confidently tackle current business challenges and harness next generation features Real world case studies and emerging application patterns round out this essential resource making it an indispensable reference for anyone designing deploying or scaling Couchbase powered solutions

Distributed and Cloud Computing Kai Hwang, Jack Dongarra, Geoffrey C. Fox, 2013-12-18 Distributed and Cloud Computing From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing It is the first modern up to date distributed systems textbook it explains how to create high performance scalable reliable systems exposing the design principles architecture and innovative applications of parallel distributed and cloud computing systems Topics covered by this book include facilitating management debugging migration and disaster recovery through virtualization clustered systems for research or ecommerce applications designing systems as web services and social networking systems using peer to peer computing The principles of cloud computing are discussed using examples from open source and commercial applications along with case studies from the leading distributed computing vendors such as Amazon Microsoft and Google Each chapter includes exercises and further reading with lecture slides and more available online This book will be ideal for students taking a distributed systems or distributed computing class as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud P2P and grid computing Complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing Includes case studies from the leading distributed computing vendors Amazon Microsoft Google and more Explains how to use virtualization to facilitate management debugging migration and disaster recovery Designed for undergraduate or graduate students taking a

distributed systems course each chapter includes exercises and further reading with lecture slides and more available online

Software Engineering and Middleware Thomas Gschwind,2005-04-13 This book constitutes the thoroughly refereed proceedings of the 4th International Workshop on Software Engineering and Middleware SEM 2004 held in Linz Austria in September 2004 The 16 revised full papers presented went through two rounds of reviewing and improvement and were selected from 44 submissions The papers are organized in topical sections on middleware services ubiquitous computing performance and QoS and building distributed applications

Mobile Computing Principles Reza B'Far,2004-11-01 Written to address technical concerns that mobile developers face regardless of the platform J2ME WAP Windows CE etc this 2005 book explores the differences between mobile and stationary applications and the architectural and software development concepts needed to build a mobile application Using UML as a tool Reza B far guides the developer through the development process showing how to document the design and implementation of the application He focuses on general concepts while using platforms as examples or as possible tools After introducing UML XML and derivative tools necessary for developing mobile software applications B far shows how to build user interfaces for mobile applications He covers location sensitivity wireless connectivity mobile agents data synchronization security and push based technologies and finally homes in on the practical issues of mobile application development including the development cycle for mobile applications testing mobile applications architectural concerns and a case study

Cloud Computing with e-Science Applications Olivier Terzo,Lorenzo Mossucca,2017-12-19 The amount of data in everyday life has been exploding This data increase has been especially significant in scientific fields where substantial amounts of data must be captured communicated aggregated stored and analyzed Cloud Computing with e Science Applications explains how cloud computing can improve data management in data heavy fields such as bioinformatics earth science and computer science The book begins with an overview of cloud models supplied by the National Institute of Standards and Technology NIST and then Discusses the challenges imposed by big data on scientific data infrastructures including security and trust issues Covers vulnerabilities such as data theft or loss privacy concerns infected applications threats in virtualization and cross virtual machine attack Describes the implementation of workflows in clouds proposing an architecture composed of two layers platform and application Details infrastructure as a service IaaS platform as a service PaaS and software as a service SaaS solutions based on public private and hybrid cloud computing models Demonstrates how cloud computing aids in resource control vertical and horizontal scalability interoperability and adaptive scheduling Featuring significant contributions from research centers universities and industries worldwide Cloud Computing with e Science Applications presents innovative cloud migration methodologies applicable to a variety of fields where large data sets are produced The book provides the scientific community with an essential reference for moving applications to the cloud

Advanced Real-Time Data Integration: Apache Kafka and Spark Streaming Techniques Adam Jones,2025-01-03 Unlock the potential of cutting edge real time data

processing with Advanced Real Time Data Integration Apache Kafka and Spark Streaming Techniques This comprehensive guide serves as your gateway to mastering two pivotal technologies in the world of data integration Perfect for software developers data engineers IT professionals and students eager to explore the nuances of real time data this book equips you with the knowledge to build scalable efficient and reliable streaming applications Delve into the sophisticated architecture of Apache Kafka understanding its core components and advanced features that make it an essential element of contemporary data infrastructure Examine the powerful capabilities of Spark Streaming from foundational concepts to advanced performance optimizations and discover how to integrate it effortlessly with Kafka to create dynamic data processing solutions Covering a broad range of topics such as designing robust streaming applications data serialization system monitoring and practical case studies this book furnishes you with the necessary tools and insights to excel with streaming data Through clear and concise explanations Advanced Real Time Data Integration Apache Kafka and Spark Streaming Techniques simplifies the complexities of these technologies making them accessible to a wide audience intent on harnessing the full potential of real time data integration in their projects and enterprises

Serverless Computing: Principles and Paradigms Rajalakshmi Krishnamurthi,Adarsh Kumar,Sukhpal Singh Gill,Rajkumar Buyya,2023-05-11 This book explores how advances in graphic processing units GPUs programmable logic devices TPUs and field programmable gate arrays have altered the serverless computing landscape FPGAs Distributed system architectures and implementations have undergone significant changes due to the popularity of serverless computing Making and releasing product applications doing market research and maintaining customer interactions might all benefit from the reduced infrastructure expenses made possible by serverless computing This book is a great resource for teachers and students interested in learning more about serverless computing Some of the main questions surrounding serverless technology such as scalability and performance distribution are answered Concepts and fundamentals of computing performance such as cost free operation good time and resource management fairness and interoperability are discussed Serverless is at the forefront of this shift which has made data intensive distributed applications and open source platforms essential for any modern computer to function Data centric queuing real time logging and monitoring querying and alarms are all examples of serverless services

Reliable Distributed Systems Amy Elser,2008-11-01 Explains fault tolerance in clear terms with concrete examples drawn from real world settings Highly practical focus aimed at building mission critical networked applications that remain secure

Guide to High Performance Distributed Computing K.G. Srinivasa,Anil Kumar Muppalla,2015-02-09 This timely text reference describes the development and implementation of large scale distributed processing systems using open source tools and technologies Comprehensive in scope the book presents state of the art material on building high performance distributed computing systems providing practical guidance and best practices as well as describing theoretical software frameworks Features describes the fundamentals of building scalable software systems for large scale data processing in the new

paradigm of high performance distributed computing presents an overview of the Hadoop ecosystem followed by step by step instruction on its installation programming and execution Reviews the basics of Spark including resilient distributed datasets and examines Hadoop streaming and working with Scalding Provides detailed case studies on approaches to clustering data classification and regression analysis Explains the process of creating a working recommender system using Scalding and Spark Integration and Implementation of the Internet of Things Through Cloud Computing Tomar, Pradeep,2021-06-18

The internet of things IoT has drawn great attention from both academia and industry since it offers a challenging notion of creating a world where all things around us are connected to the internet and communicate with each other with minimal human intervention Another component for helping IoT to succeed is cloud computing The combination of cloud computing and IoT will enable new monitoring services and powerful processing of sensory data streams These applications alongside implementation details and challenges should also be explored for successful mainstream adoption IoT is also fueled by the advancement of digital technologies and the next generation era will be cloud based IoT systems Integration and Implementation of the Internet of Things Through Cloud Computing studies analyzes and presents cloud based IoT related technologies protocols and standards along with recent research and development in cloud based IoT It also presents recent emerging trends and technological advances of cloud based IoT innovative applications and the challenges and implications for society The chapters included take a strong look at the societal and social aspects of this technology along with its implementations and technological analyses This book is intended for IT specialists technologists practitioners researchers academicians and students who are interested in the next era of IoT through cloud computing *Advances in*

Communication and Computational Technology Gurdeep Singh Hura,Ashutosh Kumar Singh,Lau Siong Hoe,2020-08-13 This book presents high quality peer reviewed papers from the International Conference on Advanced Communication and Computational Technology ICACCT 2019 held at the National Institute of Technology Kurukshetra India The contents are broadly divided into four parts i Advanced Computing ii Communication and Networking iii VLSI and Embedded Systems and iv Optimization Techniques The major focus is on emerging computing technologies and their applications in the domain of communication and networking The book will prove useful for engineers and researchers working on physical data link and transport layers of communication protocols Also this will be useful for industry professionals interested in manufacturing of communication devices modems routers etc with enhanced computational and data handling capacities **Distributed**

Computing for Advanced Levels of Machinery Control Neil Arthur Duffie,1980

The book delves into Distributed Computing Principles And Applications. Distributed Computing Principles And Applications is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Distributed Computing Principles And Applications, encompassing both the fundamentals and more intricate discussions.

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Distributed Computing Principles And Applications.

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