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Distributed Computing

Principles and Applications

M. L. Liu

Distributed Computing Principles And Applications

David Evers, Spyros Voulgaris



Distributed Computing Principles And Applications :

Distributed Computing 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: Principles And Applications Liu, 2004-09 **Distributed Computing Principles and Applications** Katie Bond, 2025-07-31

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 **Proceedings of**

the ... Annual ACM Symposium on Principles of Distributed Computing ,2003 *Reliable Distributed Systems*

Kenneth Birman,2006-07-02 An understanding of the techniques used to make distributed computing systems and networks reliable fault tolerant and secure will be crucial to those involved in designing and deploying the next generation of mission critical applications and Web Services *Reliable Distributed Systems* reviews and describes the key concepts principles and applications of modern distributed computing systems and architectures This self contained book consists of five parts The first covers introductory material including the basic architecture of the Internet simple protocols such as RPC and TCP object oriented architectures operating systems enhancements for high performance and reliability issues The second covers the Web with a focus on Web Services technologies Microsoft s NET and the Java Enterprise Edition The remaining three parts look at a number of reliability and fault tolerance issues and techniques with an emphasis on replication applied in Web Services settings With its well focused approach and clarity of presentation this book is an excellent resource for both advanced students and practitioners in computer science computer networks and distributed systems Anyone seeking to develop a solid grounding in distributed computing and Web Services architectures will find the book an essential and practical learning tool *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 ***Science Gateways for Distributed Computing***

Infrastructures Péter Kacsuk,2014-10-28 The book describes the science gateway building technology developed in the SCI BUS European project and its adoption and customization method by which user communities such as biologists chemists and astrophysicists can build customized domain specific science gateways Many aspects of the core technology are explained in detail including its workflow capability job submission mechanism to various grids and clouds and its data transfer mechanisms among several distributed infrastructures The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways *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 **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

Distributed Computing Raman Khanna,1994 Focusing on distributed computing implementation this work presents the current state of the art in distributed computing in industry and academia Covers OSF DCE and DME ONC NFS distributed file systems user services management and security in a distributed environment Features case studies of actual implementations at leading corporations universities and industry consortia **Computational and Data Grids:**

Principles, Applications and Design Preve, Nikolaos,2011-09-30 This book provide relevant theoretical frameworks covering the latest empirical research findings in the area of grid computing with a critical perspective bridging the gap between academia and the latest achievements of the computer industry Provided by publisher *Proceedings of the Twelfth Annual ACM Symposium on Principles of Distributed Computing* ,1993 *Proceedings of the Eighteenth Annual ACM Symposium on Principles of Distributed Computing, Atlanta, Georgia, USA, May 3-6, 1999* ,1999 *Proceedings of the Sixteenth ACM Symposium on Principles of Distributed Computing* ,1997 **Proceedings of the Seventeenth Annual ACM Symposium on Principles of Distributed Computing, Puerto Vallarta, México, June 28-July 2, 1998** ,1998

Peer-to-Peer Computing Quang Hieu Vu,Mihai Lupu,Beng Chin Ooi,2009-10-20 Peer to peer P2P technology or peer computing is a paradigm that is viewed as a potential technology for redesigning distributed architectures and consequently

distributed processing Yet the scale and dynamism that characterize P2P systems demand that we reexamine traditional distributed technologies A paradigm shift that includes self reorganization adaptation and resilience is called for On the other hand the increased computational power of such networks opens up completely new applications such as in digital content sharing scientific computation gaming or collaborative work environments In this book Vu Lupu and Ooi present the technical challenges offered by P2P systems and the means that have been proposed to address them They provide a thorough and comprehensive review of recent advances on routing and discovery methods load balancing and replication techniques security accountability and anonymity as well as trust and reputation schemes programming models and P2P systems and projects Besides surveying existing methods and systems they also compare and evaluate some of the more promising schemes The need for such a book is evident It provides a single source for practitioners researchers and students on the state of the art For practitioners this book explains best practice guiding selection of appropriate techniques for each application For researchers this book provides a foundation for the development of new and more effective methods For students it is an overview of the wide range of advanced techniques for realizing effective P2P systems and it can easily be used as a text for an advanced course on Peer to Peer Computing and Technologies or as a companion text for courses on various subjects such as distributed systems and grid and cluster computing

Proceedings of the Thirteenth Annual ACM Symposium on Principles of Distributed Computing ,1994

Distributed Applications and Interoperable Systems David Eysers,Spyros Voulgaris,2022-09-05 This book constitutes the refereed proceedings of the 22nd IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems DAIS 2022 held in Lucca Italy in June 2022 as part of the 17th International Federated Conference on Distributed Computing Techniques DisCoTec 2022 The 9 full papers and 2 short papers presented in this book were carefully reviewed and selected from 19 submissions DAIS addresses all practical and conceptual aspects of distributed applications including their design modeling implementation and operation the supporting middleware appropriate software engineering methodologies and tools as well as experimental studies and applications

Distributed Computing Ajay D. Kshemkalyani,Kshemkalyani Ajay D Singhal Mukesh,Mukesh Singhal,2008 This comprehensive textbook covers the principles and models underlying the theory algorithms and systems aspects of distributed computing

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