NETWORK THEORY AND APPLICATIONS

Distributed Network Systems

From Concepts to Implementations

Weijia Jia
Wanlei Zhou

Springer

Distributed Network Systems From Concepts To Implementations

Steven R. Soltis

Distributed Network Systems From Concepts To Implementations:

Distributed Network Systems Weijia Jia,Wanlei Zhou,2006-06-14 Both authors have taught the course of Distributed Systems for many years in the respective schools During the teaching we feel strongly that Distributed systems have evolved from traditional LAN based distributed systems towards Internet based systems Although there exist many excellent textbooks on this topic because of the fast development of distributed systems and network programming protocols we have difficulty in finding an appropriate textbook for the course of distributed systems with orientation to the requirement of the undergraduate level study for today s distributed technology Specifically from to date concepts algorithms and models to implementations for both distributed system designs and application programming Thus the philosophy behind this book is to integrate the concepts algorithm designs and implementations of distributed systems based on network programming After using several materials of other textbooks and research books we found that many texts treat the distributed systems with separation of concepts algorithm design and network programming and it is very difficult for students to map the concepts of distributed systems to the algorithm design prototyping and implementations This book intends to enable readers especially postgraduates and senior undergraduate level to study up to date concepts algorithms and network programming skills for building modern distributed systems It enables students not only to master the concepts of distributed network system but also to readily use the material introduced into implementation practices **Distributed Network Systems** Weijia Jia,Wanlei Zhou,2008-11-01 Both authors have taught the course of Distributed Systems for many years in the respective schools During the teaching we feel strongly that Distributed systems have evolved from traditional LAN based distributed systems towards Internet based systems Although there exist many excellent textbooks on this topic because of the fast development of distributed systems and network programming protocols we have difficulty in finding an appropriate textbook for the course of distributed systems with orientation to the requirement of the undergraduate level study for today s distributed technology Specifically from to date concepts algorithms and models to implementations for both distributed system designs and application programming Thus the philosophy behind this book is to integrate the concepts algorithm designs and implementations of distributed systems based on network programming After using several materials of other textbooks and research books we found that many texts treat the distributed systems with separation of concepts algorithm design and network programming and it is very difficult for students to map the concepts of distributed systems to the algorithm design prototyping and implementations This book intends to enable readers especially postgraduates and senior undergraduate level to study up to date concepts algorithms and network programming skills for building modern distributed systems It enables students not only to master the concepts of distributed network system but also to readily use the material introduced into implementation practices **Distributed Network Systems: From Concepts To Implementation** Jia,2009-10-01 *Distributed Network Systems* Weijia Jia,Wanlei Zhou,2005-12-15 Both authors have taught the course of

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broad meaning of distributed system We give examples try to define terms and discuss the problems that arise in the context of parallel and distributed processing The second part presents the typical layered protocol architecture of distributed systems and discusses problems of compatibility and interworking between heterogeneous computer systems The principles of the lower layer functions and protocols are explained in some detail including link layer protocols and network transmission services The third part deals with specification issues The role of specifications in the design of distributed systems is explained in general and formal methods for the specification analysis and implementation of distributed systems are discussed **Distributed Telecommunications Networks Via Satellites and Packet Switching** Roy D. Rosner,1982

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The intent of this volume is to illustrate the problems and promises of distributed systems while informing readers of the pitfalls and progress of distributed systems **Proceedings of the IEEE Workshop on Advances in Parallel and Distributed Systems, October 6, 1993, Princeton, New Jersey** Bharat K. Bhargava,1993 *The Design and Implementation of a Distributed File System Based on Shared Network Storage* Steven R. Soltis,1997 Second International Workshop on Services in Distributed and Networked Environments ,1995 Conference on Communication Networks and Distributed Systems Modeling and Simulation (CNDS '97), January 12-15, 1997, Sheraton Crescent Hotel, Phoenix, Arizona Lionel M. Ni,Taieb F. Znati,1997 First Pacific Computer Communications Symposium ,1985 **Undergraduate and Graduate Courses and Programs** Iowa State University,2007

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