DEPENDABLE NETWORK COMPUTING

edited by
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Dependable Network Computing

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Dependable Network Computing:

Dependable Network Computing Dimiter R. Avresky,2012-12-06 Dependable Network Computing provides insights into various problems facing millions of global users resulting from the internet revolution It covers real time problems involving software servers and large scale storage systems with adaptive fault tolerant routing and dynamic reconfiguration techniques Also included is material on routing protocols QoS and dead and live lock free related issues All chapters are written by leading specialists in their respective fields Dependable Network Computing provides useful information for scientists researchers and application developers building networks based on commercially off the shelf components Special Section Dimitri Ranguelov Avresky,Jehoshua Bruck,David E. Culler,2001 Dependable Computing Marco Vieira,Joao Carlos Cunha,2013-11-13 This book constitutes the thoroughly refereed proceedings of the 14 the European Workshop on Dependable Computing EWDC 2013 held in Coimbra Portugal in May 2013 The 9 full papers and 6 short papers presented were carefully reviewed and selected from 24 submissions Also included in the volume are 6 fast abstracts presenting work in progress or new ideas in the dependability area The papers are organized in topical sections on wireless sensor networks cloud computing and services testing and fault detection fault injection and benchmarking and dependable and secure computing **Trustworthy Computing** Mehmet Sahinoglu,2007-07-09 This book is based on the author s advanced undergraduate or beginning graduate course Computer Security and Reliability which he has been teaching for the past six years The author takes an index based quantitative approach to the subject as opposed to the usual verbal or qualitative or subjective case histories The TWC Solver available on an accompanying CD ROM contains 10 java coded main applications and hundreds of subitems and assists the reader in understanding the numerical implementations of the book chapters **IEEE International Symposium on Network Computing and Applications** ,2001 Annotation This collection of 45 papers from the October 2001 symposium addresses distributed system high performance computing wireless technology dependability and software architecture issues related to networking Among the topics are calculation of deadline missing probability in a QoS capable cluster interconnect replicated database recovery using multicast communication execution driven simulation of IP router architectures IP storage and the CPU consumption myth reconfigurable algorithms in view synchrony and performance analysis of a wireless metropolitan area network No index c Book News Inc **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   Advances in Database Technology - EDBT 2004 Elisa Bertino,2004-02-25 This book constitutes the refereed proceedings of the 9th International Conference on Extending Database Technology EDBT 2004 held in Heraklion Crete Greece in March 2004 The 42 revised full papers presented together with 2 industrial application papers 15 software demos and 3 invited contributions were carefully reviewed and selected from 294 submissions The papers are organized in topical sections on distributed mobile and peer to peer database systems data mining and knowledge discovery trustworthy database systems innovative query processing techniques for XML data data and information on the web query processing techniques for spatial databases foundations of query processing advanced query processing and optimization query processing techniques for data and schemas multimedia and quality aware systems indexing techniques and imprecise sequence pattern queries   **Building Secure and Reliable Network Applications** Kenneth P. Birman,1996   *Dependable Computing--EDCC ... ,*2005   **Cyber-Risk Informatics** Mehmet Sahinoglu,2016-04-29 This book provides a scientific modeling approach for conducting metrics based quantitative risk assessments of cybersecurity vulnerabilities and threats This book provides a scientific modeling approach for conducting metrics based quantitative risk assessments of cybersecurity threats The author builds from a common understanding based on previous class tested works to introduce the reader to the current and newly innovative approaches to address the maliciously by human created rather than by chance occurring vulnerability and threat and related cost effective management to mitigate such risk This book is purely statistical data oriented not deterministic and employs computationally intensive techniques such as Monte Carlo and Discrete Event Simulation The enriched JAVA ready to go applications and solutions to exercises provided by the author at the book s specifically preserved website will enable readers to utilize the course related problems Enables the reader to use the book s website s applications to implement and see results and use them making budgetary sense Utilizes a data analytical approach and provides clear entry points for readers of varying skill sets and backgrounds Developed out of necessity from real in class experience while teaching advanced undergraduate and graduate courses by the author Cyber Risk Informatics is a resource for undergraduate students graduate students and practitioners in the field of Risk Assessment and Management regarding Security and Reliability Modeling Mehmet Sahinoglu a Professor 1990 Emeritus 2000 is the founder of the Informatics Institute 2009 and its SACS accredited 2010 and NSA certified 2013 flagship Cybersystems and Information Security CSIS graduate program the first such full degree in class

program in Southeastern USA at AUM Auburn University s metropolitan campus in Montgomery Alabama He is a fellow member of the SDPS Society a senior member of the IEEE and an elected member of ISI Sahinoglu is the recipient of Microsoft s Trustworthy Computing Curriculum TCC award and the author of Trustworthy Computing Wiley 2007

Dependable Systems and Networks (DSN 2001) (Formerly FTCS) IEEE Computer Society,IEEE,PR&&&&,2001 Proceedings of a July 2001 conference covering all aspects of dependability in classical and networked computer systems as well as topical areas in IT There is a special focus on safety and security issues in embedded multimedia and Internet applications Papers are in sections on modeling algorithms software demos replication software robustness survivability and security wireless and mobile communications real time testing and runtime error detection models for fault tolerance hardware architecture and design group oriented systems and practical experiences Specific topics include model based synthesis of fault trees from MATLAB a dynamic replica selection algorithm for tolerating timing faults constructing self testable software components and intrusion tolerant group management in enclaves This volume lacks a subject index c Book News Inc **Proceedings of the ... Annual ACM Symposium on Principles of Distributed Computing** ,2002

Mathematical Reviews ,2001 **Networking Explained** Michael A. Gallo,1999 Networking Explained is aimed at computer professionals who have an interest in furthering their knowledge of the fundamental principles of networks and networking It employs an easy to follow question and answer format The questions are representative of those asked by people who are already in the computing field and are categorized hierarchically by subject so that busy readers who seek answers to specific questions in the heat of combat can find them easily The answers are intended to give the reader a broad foundation in networking concepts Accordingly this text is useful to computer professionals who are interested in either enhancing their capabilities in networking or are considering changing their professions to the field of networking The text can also be used as a supplemental source for those who have a working knowledge of computing but lack an understanding of the fundamental concepts and theoretical underpinnings of networks Finally the text can be used as a basic instructional book for undergraduate or graduate networking students Illustrations tables and special sidebars are included to help develop further understanding Question and answer format Informative sidebars and illustrations Easy to read and follow

High Performance Computing ,2002 **Proceedings of the Twenty-first Annual ACM Symposium on Principles of Distributed Computing** ,2002 **Proceedings of National Conference on Methods and Models in Computing** ,2007 Contributed papers presented at a national conference organized by the School of Computer and Systems Sciences Jawaharlal Nehru University New Delhi Proceedings ,2002 This text contains information on database and information systems presented at the 5th IEEE international symposium on Object Oriented Real Time Distributed Computing ISORC 2002 *StorageSS '05* Bill Yurcik,Larry Brumbaugh,Yuanyuan Zhou,2005 **DETC2005** ,2005

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