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KEY=MODELING - JAIDYN SHYANNE

Broadband Communication

Modeling, Analysis and Synthesis of an ATM Switching Element

Performance Analysis of Network Architectures

Springer Science & Business Media **Three approaches can be applied to determine the performance of parallel and distributed computer systems: measurement, simulation, and mathematical methods. This book introduces various network architectures for parallel and distributed systems as well as for systems-on-chips, and presents a strategy for developing a generator for automatic model derivation. It will appeal to researchers and students in network architecture design and performance analysis.**

Government Reports Announcements & Index

Algebraic Methodology and Software Technology

6th International Conference, AMAST '97, Sydney, Australia, Dezember 13-17, 1997. Proceedings

Springer Science & Business Media **This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering, AMAST'97, held in Sydney, Australia, in December 1997. The volume presents 48 revised full papers selected from an unusually high number of submissions. One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns, tools, case studies, and industrial development. The volume addresses all current aspects of formal methods in software engineering and programming methodology, with a certain emphasis on algebraic and logical foundations.**

Principles of Secure Network Systems Design

Springer Science & Business Media **A fundamental and comprehensive framework for network security designed for military, government, industry, and academic network personnel. Scientific validation of "security on demand" through computer modeling and simulation methods. The book presents an example wherein the framework is utilized to integrate security into the operation of a network. As a result of the integration, the inherent attributes of the network may be exploited to reduce the impact of security on network performance and the security availability may be increased down to the user level. The example selected is the ATM network which is gaining widespread acceptance and use.**

XII Symposium on Integrated Circuits and Systems

Design

Proceedings : Natal-RN, Brazil, September 29-October 2, 1999

IEEE Topics in these conference papers include: microprocessors design; modelling; co-design; analog design; high-level synthesis; digital design; synthesis and reconfiguration; CAD tools; and IP cores."

Computer Aided Verification

13th International Conference, CAV 2001, Paris, France, July 18-22, 2001. Proceedings

Springer This book constitutes the refereed proceedings of the 13th International Conference on Computer Aided Verification, CAV 2001, held in Paris, France in July 2001. The 33 revised full papers presented were carefully reviewed and selected from 106 regular paper submissions; also included are 13 reviewed tool presentations selected from 27 submissions. The book offers topical sections on model checking and theorem proving, automata techniques, verification core technology, BDD and decision trees, abstraction and refinement, combinations, infinite state systems, temporal logics and verification, microprocessor verification and cache coherence, SAT and applications, and timed automata.

GLOBECOM '90

IEEE Global Telecommunications Conference & Exhibition, San Diego, CA, December 2-5, 1990, "Communications : Connecting the Future" : Conference Record

Science Abstracts

Electrical & electronics abstracts. Series B

Discrete-Time Models for Communication Systems Including ATM

Springer Most queuing analyses performed in the literature are based on characterization of queueing phenomena in continuous-time items. Recently in the telecommunication industries, B-ISDN (broadband integrated services digital network) has received considerable attention since it can provide a common interface for future communication needs including video, data, and speech. Since information in B-ISDN is transported by means of discrete units of 53-octet ATM (asynchronous transfer mode) cells, interests in discrete-time systems have increased. *Discrete-Time Models for Communication Systems Including ATM* provides a general framework for queueing analyses of discrete-time systems. After a brief look at past studies of discrete-time systems, a detailed description and analysis are presented for a generic discrete-time model with a single server, arbitrary service times and independent arrivals. The book then follows a less stringent approach and focuses more on the average statistics and on different queueing disciplines. Conventional first-in-out and last-in-first-out disciplines are discussed in terms of the average statistics. Systems with multiple classes of messages without class-dependent priorities are considered to establish a discrete-time conservation law. Multiple classes with priorities are also considered to derive performance measures of priority scheduling disciplines. Finally, a multi-queue system with cyclic service is analyzed in the context of round-robin service ordering. This is followed by analyses of discrete-time queueing systems with 'more complicate' input and output processes. Specifically, single-server systems are investigated whereby either the arrivals or the server is subject to random interruptions. Results are mainly obtained in terms of generating functions and mean values of the principal performance measures. The influence of the nature of the arrival correlation and the server interruptions on

the queueing behavior is discussed. Finally, the book explores queueing models directly associated with ATM switches and multiplexers. This book is a valuable reference and may be used as a text for an advanced course on the subject.

Journal of the Institution of Engineers (India).

Computer Engineering Division

Masters Theses in the Pure and Applied Sciences

Accepted by Colleges and Universities of the United States and Canada Volume 40

Springer Science & Business Media Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS)* at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volumes were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 40 (thesis year 1995) a total of 10,746 thesis titles from 19 Canadian and 144 United States universities. We are sure that this broader base for these titles reported will greatly enhance the value of this important annual reference work. While Volume 40 reports theses submitted in 1995, on occasion, certain universities do report theses submitted in previous years but not reported at the time.

Switching Theory

Architecture and Performance in Broadband ATM Networks

John Wiley & Sons Incorporated For telecommunications engineers and researchers looking to learn about broadband networks based on the ATM standard, no other book combines the analysis of ATM theory, architecture, and performance in a single volume.

IEE Proceedings

Indexes IEE proceedings parts A through I

Dissertation Abstracts International

The sciences and engineering. B

Energy Research Abstracts

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Scientific and Technical Aerospace Reports

Information Systems Analysis and Modeling

An Informational Macrodynamics Approach

Springer Science & Business Media **Informational Macrodynamics (IMD)** presents the unified information systemic approach with common information language for modeling, analysis and optimization of a variety of interactive processes, such as physical, biological, economical, social, and informational, including human activities. Comparing it with thermodynamics, which deals with transformation energy and represents a theoretical foundation of physical technology, IMD deals with transformation information, and can be considered a theoretical foundation of Information Computer Technology (ICT). ICT includes but is not limited to applied computer science, computer information systems, computer and data communications, software engineering, and artificial intelligence. In ICT, information flows from different data sources, and interacts to create new information products. The information flows may interact physically or via their virtual connections, initiating an information dynamic process that can be distributed in space. As in physics, a problem is understanding general regularities of the information processes in terms of information law, for the engineering and technological design, control, optimization, and development of computer technology, operations, manipulations, and management of real information objects. **Information Systems Analysis and Modeling: An Informational Macrodynamics Approach** belongs to an interdisciplinary science that represents the new theoretical and computer-based methodology for system informational description and improvement, including various activities in such interdisciplinary areas as thinking, intelligent processes, management, and other nonphysical subjects with their mutual interactions, informational superimpositions, and the information transferred between interactions. **Information Systems Analysis and Modeling: An Informational Macrodynamics Approach** can be used as a textbook or secondary text in courses on computer science, engineering, business, management, education, and psychology and as a reference for research and industry.

High-Performance Backbone Network Technology

CRC Press **Compiling the most influential papers from the IEICE Transactions in Communications, High-Performance Backbone Network Technology** examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control, telephone service, real-time video transfer, voice and image transmission for a content delivery network (CDN), and Internet access. The contributors explore system structures, experimental prototypes, and field trials that herald the development of new IP networks that offer quality-of-service (QoS), as well as enhanced security, reliability, and function. Offers many hints and guidelines for future research in IP and photonic backbone network technologies

Algebraic Methodology and Software Technology

(AMAST ...), Proceedings of the ... International Conference on Algebraic Methodology and Software Technology

ASEE ... Profiles of Engineering & Engineering Technology Colleges

Performance Evaluation and High Speed Switching Fabrics and Networks

ATM, Broadband ISDN, and MAN Technology (A Selected Reprint Volume)

Wiley-IEEE Press **A handy source for practicing engineers and researchers, this book offers collected examples of successful performance evaluation of high speed telecommunications switching fabrics such as ATM networks and high speed interconnection technology for computers. It emphasizes the performance evaluation of such switches as they apply to predicting a proposed system's performance through the use of statistical models -- a cost-saving way for communications engineers to test the design of a system without having to construct it.**

25th Euromicro Conference

Informatics : Theory and Practice for the New Millennium, Milan, Italy, September 8-10, 1999 : Proceedings

IEEE Annotation This is a two-volume set of the proceedings of the September 1999 conference on the current and future developments in informatics theories and application areas. Volume I (80 contributions) discusses digital system design, architectures, and methods and tools. Volume II (30 contributions) covers music technology and audio processing, dependable computing systems, software process and product improvement, multimedia and telecommunication, and network computing. Lacks a subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

Optical Transmission, Switching, and Subsystems II

9-11 November, 2004, Beijing, China

Computer & Control Abstracts

Applied Science & Technology Index

Electrical & Electronics Abstracts

Compounds with Polar Metallic Bonding

MDPI The Special Edition 'Compounds with Polar Metallic Bonding' is a collection of eight original research reports presenting a broad variety of chemical systems, analytical methods, preparative pathways and theoretical descriptions of bonding situations, with the common aim of understanding the complex interplay of conduction electrons in intermetallic compounds that possess different types of dipoles. Coulombic dipoles introduced by electronegativity differences, electric or magnetic dipoles, polarity induced by symmetry reduction—all the possible facets of the term 'polarity'—can be observed in polar intermetallic phases and have their own and, in most cases, unique consequences on the physical and chemical behaviour. Elucidation of the structure-property relationships in compounds with polar metallic bonding is a modern and growing scientific field which combines solid state physics, preparative chemistry, metallurgy, modern analytic methods, crystallography, theoretical calculations of the electronic state and many more disciplines.

Fischer-Tropsch Technology

Elsevier Fischer-Tropsch Technology is a unique book for its state-of-the-art approach to Fischer Tropsch (FT) technology. This book provides an explanation of the basic principles and terminology that are required to understand the application of FT technology. It also contains comprehensive references to patents and previous publications. As the first publication to focus on theory and application, it is a contemporary reference source for students studying chemistry and chemical engineering. Researchers and engineers active in the development of FT technology will also find this book an invaluable source of information. * Is the first publication to cover the theory and application for modern Fischer Tropsch technology * Contains comprehensive knowledge on all aspects relevant to the application of Fischer Tropsch technology * No other publication looks at past, present and future applications

Physics Briefs

Physikalische Berichte

International Aerospace Abstracts

Communications, Architectures & Protocols

SIGCOMM '91 Conference

Graduate Catalog

Fundamental Immunology

Lippincott Williams & Wilkins **Now thoroughly revised and updated, this comprehensive, up-to-date text is ideal for graduate students, post-doctoral fellows, microbiologists, infectious disease physicians, and any physician who treats diseases in which immunologic mechanisms play a role.**

The Initiation of DNA Replication in Eukaryotes

Springer **Every time a cell divides, a copy of its genomic DNA has to be faithfully copied to generate new genomic DNA for the daughter cells. The process of DNA replication needs to be precisely regulated to ensure that replication of the genome is complete and accurate, but that re-replication does not occur. Errors in DNA replication can lead to genome instability and cancer. The process of replication initiation is of paramount importance, because once the cell is committed to replicate DNA, it must finish this process. A great deal of progress has been made in understanding how DNA replication is initiated in eukaryotic cells in the past ten years, but this is the first one-source book on these findings. The Initiation of DNA Replication in Eukaryotes will focus on how DNA replication is initiated in eukaryotic cells. While the concept of replication initiation is simple, its elaborate regulation and integration with other cell processes results in a high level of complexity. This book will cover how the position of replication initiation is chosen, how replication initiation is integrated with the phases of the cell cycle, and how it is regulated in the case of damage to DNA. It is the cellular protein machinery that enables replication initiation to be activated and regulated. We now have an in-depth understanding of how cellular proteins work together to start DNA replication, and this new resource will reveal a mechanistic description of DNA replication initiation as well.**

Telecommunication System Engineering

John Wiley & Sons **From the review of the Third Edition: "A must for anyone involved in the practical aspects of the telecommunications industry." –CHOICE** **Outlines the expertise essential to the successful operation and design of every type of telecommunications networks in use today New edition is fully revised and expanded to present authoritative coverage of the important developments that have taken place since the previous edition was published Includes new chapters on hot topics such as cellular radio, asynchronous transfer mode, broadband technologies, and network management**

How Tobacco Smoke Causes Disease

The Biology and Behavioral Basis for Smoking-attributable Disease : a Report of the Surgeon General

U.S. Government Printing Office **This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.**

Eleventh International Conference on VLSI Design

January 4-7, 1997, Chennai, India

IEEE **Areas covered in this work include: physical design; synthesis; delay test and timing; high-level synthesis; hardware/software co-design; low-power design; verification; VLSI synthesis; testability enhancement; asynchronous design; diagnosis; test and fault modelling; and mixed-signal design.**

Electronic Systems Maintenance Handbook

CRC Press The days of troubleshooting a piece of gear armed only with a scope, voltmeter, and a general idea of how the hardware works are gone forever. As technology continues to drive equipment design forward, maintenance difficulties will continue to increase, and those responsible for maintaining this equipment will continue to struggle to keep up. The **Electronic Systems Maintenance Handbook, Second Edition** establishes a foundation for servicing, operating, and optimizing audio, video, computer, and RF systems. Beginning with an overview of reliability principles and properties, a team of top experts describes the steps essential to ensuring high reliability and minimum downtime. They examine heat management issues, grounding systems, and all aspects of system test and measurement. They even explore disaster planning and provide guidelines for keeping a facility running under extreme circumstances. Today more than ever, the reliability of a system can have a direct and immediate impact on the profitability of an operation. Advocating a carefully planned, systematic maintenance program, the richly illustrated **Electronic Systems Maintenance Handbook** helps engineers and technicians meet the challenges inherent in modern electronic equipment and ensure top quality performance from each piece of hardware.

Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards